



امتحان دبلوم التعليم العام

لكلية الحرس السلطاني العماني التقنية (ثنائية اللغة)

الفصل الدراسي الثاني - الدور الأول - للعام الدراسي ١٤٤٧/١٤٤٦ هـ - ٢٠٢٤ / ٢٠٢٥ م -

تنبيه:
- المادة: دراسات الكمبيوتر.
- الأسئلة في (١٠) صفحات.
- زمن الإجابة: ساعتان ونصف.
- الإجابة في الورقة نفسها.

تعليمات مهمة:

- يجب الحضور إلى قاعة الامتحان قبل عشر دقائق على الأقل من بدء زمن الامتحان.
- يجب إحضار أصل ما يثبت الهوية وإبرازها للعاملين بالامتحانات.
- يجب الالتزام بالزي (الدشداشة البيضاء والمصر أو الكمة للذكور) والزي المدرسي للطالبات ، ويستثنى من ذلك الدارسون من غير العمانيين بشرط الالتزام بالذوق العام، ويمنع على جميع المتقدمات ارتداء النقاب داخل المركز وقاعات الامتحان.
- يحظر على الممتحنين اصطحاب الهواتف النقالة وأجهزة النداء الآلي وآلات التصوير والحواسيب الشخصية والساعات الرقمية الذكية والآلات الحاسبة ذات الصفة التخزينية والمجلات والصحف والكتب الدراسية والدفاتر والمذكرات والحقائب اليدوية والآلات الحادة أو الأسلحة أياً كان نوعها وأي شيء له علاقة بالامتحان.
- يجب على الممتحن الامتثال لإجراءات التفتيش داخل المركز طوال أيام الامتحان.
- يجب على الممتحن التأكد من استلام دفتر امتحانه، مغلفاً بغلاف بلاستيكي شفاف وغير ممزق ، وهو مسؤول عنه حتى يسلمه لمراقبي اللجنة بعد الانتهاء من الإجابة.
- يجب الالتزام بضوابط إدارة امتحانات دبلوم التعليم العام وما في مستواه وأية مخالفة لهذه الضوابط تعرضك للتدابير والإجراءات والعقوبات المنصوص عليها بالقرار الوزاري رقم ٥٨٨ / ٢٠١٥.
- يقوم المتقدم بالإجابة عن أسئلة الامتحان المقالية بقلم الحبر (الأزرق أو الأسود).
- يقوم المتقدم بالإجابة عن أسئلة الاختيار من متعدد بتظليل الشكل (⬭) وفق النموذج الآتي:

س – عاصمة سلطنة عمان هي:

⬭ القاهرة ⬭ الدوحة

⬬ مسقط ⬭ أبوظبي

ملاحظة: يتم تظليل الشكل (⬬) باستخدام القلم الرصاص وعند الخطأ، امسح بعناية لإجراء التغيير.

صحيح ⬬ **غير صحيح** ⬭ ◉ ◒ ⊗ ✓

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Question One: Multiple Choice (Items 1 – 6) (6 Marks)

Shade in the bubble (⬭) next to the **correct** answer for each of the following items.

1. Which one of these is a valid variable identifier in C#?

- ⬭ break
- ⬭ number_1
- ⬭ 1rstNumber
- ⬭ FirstNumber

2. What is the key difference between **WriteLine()** and **Write()** in C#?

- ⬭ It is used to read the input from the user
- ⬭ Write() prints output on a new line, while WriteLine() stays on the same line
- ⬭ WriteLine() prints output on a new line, while Write() prints on the same line
- ⬭ WriteLine() must have a parameter, but Write() does not

3. If A=4 and B=6 then the result of the operation **(B%A+3*A-1)** is:

- ⬭ 11
- ⬭ 13
- ⬭ 14
- ⬭ 19

4. In C#, which of the following is used to execute a block of code only when a given condition is met?

- ⬭ Switch Statement
- ⬭ If Statement
- ⬭ While loop
- ⬭ For loop

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Question One Continued

5. What will be the output of the following C# code?

```
for (int i = 1; i <= 20; i++)
 {
    if (i % 2 == 0)
    {
       Console.Write(i);
       i = i + 2;
    }
 }
```

- ⬭ 26101418
- ⬭ 248121618
- ⬭ 2610141820
- ⬭ 2468101214161820

6. What is a method in C#?

- ⬭ A set of instructions that execute when the program starts
- ⬭ A code that stores text
- ⬭ A keyword used to declare a constant
- ⬭ A block of code that executes only when it's called.

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Question Two: Extended Response (Items 7- 17) (24 Marks)

Answer ALL question in the space provided

7. In C# the variable and constant are both containers that are used to store a value, but they behave differently. Compare the differences between them in the table below:

(3 marks)

Feature	Variables	Constant
Value changes		
Declaration Examples		

8. What does the **! =** operator check for? (1 mark)

_____

9. Determine the appropriate operation based on the description: (1 mark)

Description	Logical Operator
a. If at least one condition is false, the overall result will be false	
b. Only one condition needs to be met for a positive outcome	

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Question Two Continued

10. The following C# code asks the user to enter an integer number and then print the square of this number:

```
1.{
2.Console.Write("Enter a number: ");
3.int num = Console.ReadLine();
4.int square = num * num;
5.Console.WriteLine("The square of the above number is: "square);
6.}
```

List the **TWO** lines that contain errors in the given code. Then rewrite the corrections: (2 marks)

Line number: _____

The correct code: _____

Line number: _____

The correct code: _____

11. What is the purpose of the else statement in C#? (1 mark)

_____

12. A company wants to design a car application that allows the driver to choose the driving mode (Normal / Eco / Sport). What is the **most** appropriate conditional statement to implement this? (1 mark)

_____

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Question Two Continued

13. Read the C# program below and answer the following questions:

```
using System;

class Program
{
    static void Main()
    {
        string[] fishNames = { "Salmon", "Tuna", "Trout", "Cod" };
        Console.WriteLine("Original fish names:");
        for (int i = 0; i < fishNames.Length; i++)
        {
            Console.WriteLine(fishNames[i]);
        }
    }
}
```

a. What is the name of the array used in this program? (1 mark)

_____

b. Write **TWO** C# statements to display the third element of the array and replace it with "Mackerel". (2 marks)

_____

_____

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Question Two Continued

c. Suppose the following code is added to the original one, what is the purpose of this code? (1 mark)

```
string x = fishNames[0];
        for (int i = 1; i < fishNames.Length; i++)
        {
            if (fishNames[i].Length > x.Length)
            {
                x = fishNames[i];
            }
        }
        Console.WriteLine("result: " + x);
```

14. "In C#, methods can be categorized based on their behavior, accessibility, and purpose"

Based on this argument, answer the following questions:

a. What keyword is used in C# to define a method that does not return a value?

(1 mark)

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Question Two Continued

b. Write a simple C# method named **SayHello** and prints "Hello, World!". (1 mark)

15. The following program currently outputs the value 10 when executed:

```
using System;

class Program
{
    static void MultiplyByNum(int num)
    {
        int result = num * 5;
        Console.WriteLine(result);
    }

    static void Main()
    {
        MultiplyByNum(2);
    }
}
```

What is the change needed to get an output of 15? (1 mark)

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Question Two Continued

16. If you have an online store that sells products, and you want to offer discounts based on the purchase amount:

- ≥ **100 OMR** ⟶ 30 % discount.
- ≥ **40 OMR** ⟶ 20 % discount.
- **< 40 OMR** ⟶ 0 discount.

Write a program in C# that calculates the final amount

final amount= amount – (amount * discount / 100) (4 marks)

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Question Two Continued

17. Study the code given below and answer the following questions: (4 marks)

```
using System;

public class HelloWorld
{
    public static void Main(string[] args)
    {
        int number = 5;

        int factorial = 1;

        for (int i = 1; i <= number; i++)
        {
            factorial =factorial* i;
        }

        Console.WriteLine(" The factorial of " + number + " is " + factorial );
    }
}
```

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Question Two Continued

a. What is the output of the code?	
b. What will happen if the condition i <= number is replaced with i < number?	
c. Modify the code to use a while-loop instead of a for loop to achieve the result 720.	

[End of Examination]

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SULTANATE OF OMAN
MINISTRY OF EDUCATION

Marking Guide of Technical Diploma for Royal Guard of Oman Technical College
2024/2025
Semester Two – First Session
Subject: Computer Studies

مركز القياس والتقويم التربوي
The Center for Educational Assessment and Measurement (CEAM)

Note: There are 6 pages in this guide

First: Answers for the Multiple-Choice Items (6 Marks):

Item N.	Answer	Mark	Page Reference	Assessment Objective
1	B number_1	1	11	Remembering and understanding
2	C WriteLine() prints output on a new line, while Write() prints on the same line	1	8	Remembering and understanding
3	B 13	1	17	Application
4	B If Statement	1	22	Remembering and understanding
5	A 26101418	1	33	Application
6	D A block of code that executes only when it's called.	1	41	Remembering and understanding

Second: Answers for the Extended Response Items (24 Marks):

General Notes

- There may be different ways of answering questions, but a basic requirement for all answers is that they are RELEVANT.
- If the answer is clearly not relevant, and the student has clearly made no attempt to answer the question that was set, NO marks should be awarded. However, if the student has genuinely attempted the answer, but his answer is only partly relevant, then a reduced mark (not zero) should be awarded.

<table>
<tr><th>Item N.</th><th>Correct Answer</th><th>Mark</th><th>Page Reference</th><th>Assessment Objective</th></tr>
<tr><td>7</td><td>
<table>
<tr><th>Feature</th><th>Variables</th><th>Constant</th></tr>
<tr><td>Value changes</td><td>Value may be changed during the execution.(1 mark)</td><td>Value is always fixed according to its declaration. (1 mark)</td></tr>
<tr><td>Declaration Examples</td><td>string name = "Ali"; (0.5mark)</td><td>const int PI = 3.14 ; (0.5mark)</td></tr>
</table>
</td><td>3</td><td>9+10</td><td>Remembering and understanding</td></tr>
<tr><td>8</td><td>It checks if the values of two operands are equal or not. If the values are not equal then the condition becomes true.

Any other correct answer that points to the keywords or its meanings should be awarded.</td><td>1</td><td>18</td><td>Remembering and understanding</td></tr>
<tr><td>9</td><td>a. &&
b. ||
Each blank is worth 0.5 mark (0.5*2=1 mark)</td><td>1</td><td>19</td><td>Remembering and understanding</td></tr>
<tr><td>10</td><td>Line number: 3
correction:
int num = Convert.ToInt32(Console.ReadLine());

Line number: 5
correction:
Console.WriteLine("The square of the above number is: " +square);

1 mark for determining the line number (each one =0.5 mark)
1 mark for correcting the code (each one =0.5 mark)</td><td>2</td><td>12</td><td>Remembering and understanding + Application</td></tr>
</table>

11	The else statement is used to **execute a block of code when the if condition is false.** *Any other correct answer that points to the keywords or its meanings should be awarded.*	1	24	Remembering and understanding
12	Switch OR else if	1	26-27	Application
13.a	fishNames	1	36	Remembering and understanding
13.b	Console.WriteLine (fishNames [2]); fishNames [2] = "Mackerel"; *each statement* **1 mark.** *The student must write the statement correctly*	2	36	Application
13.c	to print the longest name in the array *Any other correct answer that points to the keywords or its meanings should be awarded*	1	37	Reasoning
14.a	void keyword	1	41,42	Remembering and understanding

14.b	static void SayHello() **(0.5 mark)**
	{
	Console.WriteLine("Hello, World!"); **(0.5 mark)**
	}
		1	41 + 42	Application

15	Change 2 to 3 Or Change MultiplyByNum(2) to MultiplyByNum(3)	1	44	Reasoning

16	Console.Write("Enter the purchase amount: "); **(0.5 Mark)**
	int amount = Convert.ToInt32 (Console.ReadLine()); **(0.5 Mark)**
	double finalAmount = 0; **(0.5 Mark)**
	if (amount >= 100) **(0.5 Mark)**
	{
	finalAmount = amount - (amount * 30 / 100);
	}
	else if (amount >= 40) **(0.5 Mark)**
	{
	finalAmount = amount - (amount * 20 / 100);
	}
	else **(0.5 Mark)**
	{
	finalAmount = amount;
	}
	Console.WriteLine("Final amount after discount: " +finalAmount);
	(1 Mark)
		4	16
			-18
			+
			25
				Application

17	a. The factorial of 5 is 120 (1 Mark)
	
	b. The output will be (The factorial of 5 is 24)
	Or
	The loop will execute 4 times (1 Mark)
	
	c.
	int number = 6; (0.5 Mark)
	int factorial = 1;
	int i=1; } (0.5 Mark)
	
	while (i<=number)
	{
	factorial =factorial* i;
	i=i+1;
	} } (1 Mark)
	Console.WriteLine(" The factorial of " + number + " is " + factorial);
		4	31
			+
			33
				Application and Reasoning

[The End of the Marking Guide]





امتحان دبلوم التعليم العام

لكلية الحرس السلطاني العماني التقنية (ثنائية اللغة)

الفصل الدراسي الثاني - الدور الثاني - للعام الدراسي ١٤٤٦ / ١٤٤٧ هـ - ٢٠٢٤ / ٢٠٢٥ م

تنبيه:
- المادة: دراسات الكمبيوتر.
- الأسئلة في (٩) صفحات.
- زمن الإجابة: ساعتان ونصف.
- الإجابة في الورقة نفسها.

تعليمات مهمة:

- يجب الحضور إلى قاعة الامتحان قبل عشر دقائق على الأقل من بدء زمن الامتحان.
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س – عاصمة سلطنة عمان هي:

○ القاهرة ○ الدوحة

● مسقط ○ أبوظبي

ملاحظة: يتم تظليل الشكل (●) باستخدام القلم الرصاص وعند الخطأ، امسح بعناية لإجراء التغيير.

صحيح ● **غير صحيح** ▭ ◉ ◔ ✗ ✓

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Question One: (Items 1 – 6) (6 marks)

Shade in the bubble (⬭) next to the **correct** answer for each of the following items:

1. What is C# primarily used for?

- ⬭ Hardware Design
- ⬭ Network Administration
- ⬭ Mobile and Web Applications
- ⬭ Operating System Development

2. In C#, a single-line comments start with:

- ⬭ One forward slash (/)
- ⬭ Two forward slashes (//)
- ⬭ Two backward slashes (\\)
- ⬭ One forward slash and a star (/*)

3. What will be the output of the following C# code?

```
int x = 5;
x = x * 3 + 8;
Console.WriteLine(x);
```

- ⬭ 5
- ⬭ 11
- ⬭ 23
- ⬭ 55

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Question One Continued

4. Which statement below correctly describes the behavior of an if statement in C#?

- ☐ It is the same as a while statement
- ☐ It always requires an else statement
- ☐ It can only evaluate a numerical condition
- ☐ It executes a block of code if the specified condition is true

5. The output of this C# code if the number = 5 is:

```
int x= 1;
    for (int i = number; i > 1; i--)
    {
        x= x* i;
    }
Console.Write(x);
```

- ☐ 5
- ☐ 24
- ☐ 25
- ☐ 120

6. The primary benefit of using methods in C# is:

- ☐ To reuse a code and avoid repetition
- ☐ To slow down program execution
- ☐ To store data in a file
- ☐ To write a longer code

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Question Two: (Items 7 – 17) (24 marks)

Answer ALL questions in the space provided.

7. Based on your study of variables, answer the following questions: (3 marks)

a. What are the variables in C#?

_____

b. Name TWO rules for naming variables.

1-_____

2-_____

c. Declare a variable (age) and assign it the value 25.

_____

8. What is the difference between WriteLine() and Write() in C# language? (2 marks)

WriteLine()	Write()
_____ _____	_____ _____

9. Identify the operator from the following description. (2 marks)

Description	Operator
a. Modulus Operator and the remainder of after an integer division.	_____
b. Checks if the values of two operands are equal or not. If the values are not equal the condition becomes true.	_____

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Question Two Continued

10. What is the keyword that will stop the execution of more code and case testing inside the switch block? (1 mark)

11. You have been asked to write a small program to check if the user input is equal to **100**. Write a C# if the statement that checks the variable **x** is equal to 100 and prints "**x is 100**" if true. (1 mark)

12. What is the purpose of using arrays in programming? (1 mark)

13. Ahmed recorded the temperatures over four days and they were as follows: 24, 27, 37, 32

a. Define an array with the name **temp_degree** to store the values. (1 mark)

b. Write the code to display the length of the array. (1 mark)

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Question Two Continued

c. If you add the following code to the defined array:

```
int n=5;
temp_degree[n-3]=29;
for (int i=2; i<4;i++)
    {
      Console.Write (temp_degree[i] + " ");
     }
```

What will be the output? (1 mark)

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Question Two Continued

14. What is a method in C#? (1 mark)

_____

15. Read the C# program below and answer the following questions:

```
using System;

public class RectangleArea
{
    public static void CalculateArea(double length, double width)
    {
        double area = length * width;
        Console.WriteLine("The area of the rectangle with length " + length + " and width " + width + " is: " + area);
    }
    public static void Main()
    {
         double length = 10.5;
         double width = 5.3;

    }
}
```

a. Write a statement to call the method for calculating the area? (1 mark)

_____

b. What is the output of the code? (1 mark)

_____

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Question Two Continued

16. Write a program in C# that acts as a simple calculator and does the following:

a. Prompts the user to enter two integer values.

b. Computes their sum using arithmetic operators and displays the results.

c. Uses an if-else statement to check whether the sum exceeds 100. If it does, display **"Sum is Greater than 100"**; otherwise, display **"Sum is Less than or equal 100"** (4 marks)

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Question Two Continued

17. Read the C# program below and answer the following questions: (4 marks)

```
using System;

class Program
{
    static void Main()
    {
        int sum = 0;
        int i = 1;

        while (i <= 10)
        {
            sum = sum + i;
            i++;
        }

        Console.WriteLine("The total sum from 1 to 10 is: " + sum);
    }
}
```

a. What will happen if **i** is not declared before the while loop?

_____

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Question Two Continued

b. What will the result be if you assign the value 5 to i instead of 1?

c. Modify the code using a for loop instead of a while loop.

[End of Examination]

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SULTANATE OF OMAN
MINISTRY OF EDUCATION

Marking Guide of Technical Diploma for
Royal Guard of Oman Technical College
2024/2025
Semester Two – Second Session
Subject: Computer Studies

مركز القياس والتقويم التربوي
The Center for Educational Assessment and Measurement (CEAM)

Note: There are 6 pages in this guide

First: Answers for the Multiple-Choice Items (6 Marks):

Item N.	Answer	Mark	Page Reference	Assessment Objective
1	C Mobile and Web Applications	1	6	Remembering and understanding
2	B two forward slashes (//)	1	13	Remembering and understanding
3	C 23	1	17	Application
4	D It executes a block of code if the specified condition is true.	1	22	Remembering and understanding
5	D 120	1	33	Application
6	A To reuse code and avoid repetition.	1	41	Remembering and understanding

Second: Answers for the Extended Response Items (24 Marks)

General Notes

- There may be different ways of answering questions, but a basic requirement for all answers is that they are RELEVANT.
- If the answer is clearly not relevant, and the student has clearly made no attempt to answer the question that was set, NO marks should be awarded. However, if the student has genuinely attempted the answer, but his answer is only partly relevant, then a reduced mark (not zero) should be awarded.

Item N.	Correct Answer	Mark	Page Reference	Assessment Objective
7.a	Variables are containers for storing data values in C#. **(1 mark)** *Any other correct definition that points to the keywords or its meanings should be awarded.*	1	9	Remembering and understanding
7.b	general rules for naming variables are: - Names can contain letters, digits, and the underscore character (_) - Names must begin with a letter. - Names should start with a lowercase letter, and it cannot contain whitespace. - Names are case sensitive ("myVar" and "myvar" are different variables) - Reserved words (like C# keywords, such as int or double) cannot be used as names. **(1 mark** – *student should list at least two-* **0.5** *for each correct answer)*	1	11	Remembering and understanding
7.c	*int age = 25;* *The student must write the statement correctly.*	1	11	Application
8	WriteLine() | Write() prints the output on a new line each time | prints on the same line *(***1 mark** *for each correct answer)* *Any other correct answer that points to the keywords or its meanings should be awarded.*	2	8	Remembering and understanding
9.a	*%*	1	17	Remembering and understanding
9.b	=!	1	18	Remembering and understanding
10	Break	1	28	Remembering and understanding

11	if (x == 100) **(0.5 mark)**
	{
	Console.WriteLine("x is 100"); **(0.5 mark)**
	}
	The student must write the statements correctly.
		1	22	Application

12	Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value. *Any other correct answer that points to the keywords or its meanings should be awarded.*		36	Remembering and understanding
13.a	Int [] temp_degree = {24,27, 37,32}; *The student must write the statement correctly*	1	36	Application
13.b	ConsoleWriteLine(temp_degree.Length); *Or* ConsoleWrite(temp_degree.Length); *The student must write the statement correctly*	1	37	Application
13.c	29 32	1	38	Reasoning
14	A method is a block of code which only runs when it is called. *Any other correct definition that points to the keywords or its meanings should be awarded.*	1	41	Remembering and understanding
15.a	CalculateArea(length, width);	1	41	Application
15.b	The area of the rectangle with length 10.5 and width 5.3 is: 55.65	1	41	Reasoning

16	using System;
	class Program
	{
	static void Main()
	{
	// Taking user input
	Console.Write("Enter first number: ");
	int num1 = Convert.ToInt32(Console.ReadLine()); **(0.5 mark)**
	
	Console.Write("Enter second number: ");
	int num2 = Convert.ToInt32(Console.ReadLine()); **(0.5 mark)**
	
	// Performing arithmetic operations
	int sum = num1 + num2; **(0.5 mark)**
	
	// Displaying results
	Console.WriteLine("Sum: " + sum); **(0.5 mark)**
	
	// Applying if-else condition
	if (sum > 100) **(1 mark)**
	
	{
	Console.WriteLine("Sum is Greater than 100");
	}
	else **(1 mark)**
	
	{
	Console.WriteLine("Sum is Less than or equal 100");
	}
	}
	}
	
	Student may use "write()" method to display the results.
		4	17+ 24	Application

17.a	The program will throw an error. **(1 mark)** *Any other correct answer that points to the keywords or its meanings should be awarded.*	4	31-34	Application and Reasoning
17.b	The resulting sum will be: 5 + 6 + 7 + 8 + 9 + 10 Or 45 **(1 mark)** *Any other correct answer that points to the keywords or its meanings should be awarded.*			

17.C	using System;
	
	class Program
	{
	static void Main()
	{
	int sum = 0; **(0.5 Mark)**
	
	for (int i=1; i <= 10;i++) **(1 Mark)**
	{
	sum = sum + i; **(0.5 Mark)**
	}
	
	Console.WriteLine("The total sum from 1 to 10 is: " + sum);
	}
	}			

[The End of the Marking Guide]