

UNIVERSITI TUN HUSSEIN ONN MALAYSIA FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (FSKTM) SEMESTER I 2024/2025

DOTNET PROGRAMMING BIE33103 SECTION 04

LAB 2 ASP.NET IN CONSOLE APPLICATION

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Basic C# Examples

Example 2: C# program to print an integer entered by user

```
using System;

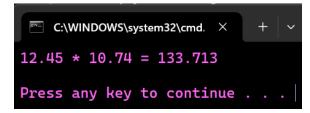
namespace PrintInteger
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)
        {
            int number;
            Console.Write("Enter a number:");
            number = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("You entered :(0)",number);
            Console.ReadLine();
        }
}
```

Enter a number:98 You entered 98:(0)

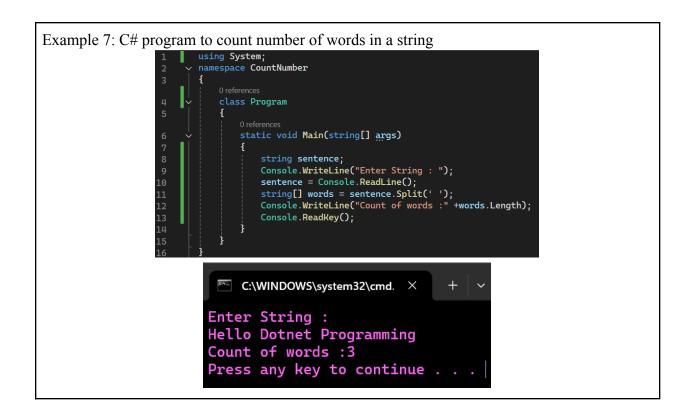
Example 4: Multiply two integer numbers in C# console

Example 5: multiply two floating point numbers in C# console



Example 6: C# calculate rectangle area

Please write the length of your rectangle: 9
Please write the width of your rectangle: 7
The area of rectangle : 63



C# Conditional Examples

Example 2: Generates the sum of N numbers in C#

```
using System;
                                Enter a Number : 6
namespace GenerateSumNumber
                                The sum is 21
   class Program
       static void Main(string[] args)
           int number, sum = 0;
           Console.Write("Enter a Number : ");
           number = Convert.ToInt32(Console.ReadLine());
           if (number < 0)
               Console.Write("Please Enter Positive Number");
           else
               while (number > 0)
                  sum += number;
                  number -= 1;
           Console.WriteLine("The sum is " + sum);
           Console.ReadKey();
```

Example 3: C# coding for function.

```
ausing System;
namespace CalculatorApplication
{
    references
    class NumberManipulator
}

int result;

if (numl > num2)
{
    result = num1;
}
else
    return result;

    return result;

}

return result;

}

return result;

}

return result;

}

return result;

/* local variable declaration */
int = 100;

int = 200;
int ret;

NumberManipulator n = new NumberManipulator(); //object n
    //and return value will be stored in ret
    ret = n.FindMax(a, b);
    Console.Wretcine('Max value is : {0}*, ret);
    Console.ReadLine();
}
```

C# Loop Examples

Example 2: Display numbers between 1 to 100 using for loop

```
using System;
                                                            Number:15
                                                            1
2
3
4
5
6
7
8
9
namespace LoopNumber
    0 references
    class Program
         0 references
         static void Main(string[] args)
              int n;
                                                            11
12
13
             Console.Write("Number :");
             n = Convert.ToInt32(Console.ReadLine());
              for (int i = 1; i <= n; i++)
                                                            14
                                                            15
                  Console.WriteLine(i);
              Console.ReadKey();
```

Example 3: Calculate sum and average of an array in C#

The sum is: 120
The average is: 30
Press any key to continue...

```
Example 4: C# program to convert digits to words
```

```
using System;
namespace ConvertDigitToWord
    class Program
        public static void Main(string[] args)
             int nextDigit;
              int numDigits;
int[] n = new int[20];
              string[] digits = { "zero", "one", "two", "three", "four", "five", "six", "seven", "eight", "nine" };
             Console.WriteLine("Enter the number:");
number = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("Number: " + number);
Console.Write("Number in words: ");
Enter the number:
                                                                        Enter the number:
              nextDigit = 0;
numDigits = 0;
                                                                        2003
                                                                        Number: 2003
             nextDigit = number % 10;
n[numDigits] = nextDigit;
numDigits++;
number = number / 10;
} while (number > 0);
                                                                        Number in words: two zero zero three
                                                                        Press any key to continue . . .
              numDigits--;
for (; numDigits >= 0; numDigits--)
    Console.Write(digits[n[numDigits]] + " ");
              Console.WriteLine();
              Console.ReadLine();
```

EXERCISE: Develop ASP.NET console application

i. Find number is even or odd using if else statement

```
Enter a number:
9
9 is an odd number.
Press any key to exit.
```

ii. Calculate Body Mass Index (BMI) using switch case

```
using System;
       v namespace Lab2
                class BMI
                     static void Main(string[] args)
                           double bmi, w, h;
                          Console.Write("Enter your weight (in kg): ");
w = Convert.ToDouble(Console.ReadLine());
13
14
                          Console.Write("Enter your height (in m): ");
h = Convert.ToDouble(Console.ReadLine());
                          bmi = w / (h * h);
Console.Write("Your BMI is: " + bmi);
                           int category;
                           if (bmi < 18.5)
                           category = 1; // Underweight
else if (bmi >= 18.5 && bmi < 24.9)
                           category = 2; // Healthy
else if (bmi >= 24.9 && bmi < 30)
                                 category = 3; // Overweight
                           else
                                 category = 4; // Obesity
```

```
Enter your weight (in kg): 60
Enter your height (in m): 1.57
Your BMI is: 24.3417582863402

Healthy
Press any key to continue . . .
```

iii. Generate Fibonacci series using for loop

```
using System;
namespace Lab2_Fibonacci
   class Program
       static void Main(string[] args)
           Console.WriteLine("Enter the number of Fibonacci terms you want to generate:");
           string input = Console.ReadLine();
           if (int.TryParse(input, out int n) && n > 0) // Parse the input to an integer
               int firstNumber = 0, secondNumber = 1;
               Console.WriteLine("Fibonacci Series:");
               for (int i = 0; i < n; i++)
                   Console.Write(firstNumber + " ");
                   int nextNumber = firstNumber + secondNumber; // Calculate the next number in the series
                   firstNumber = secondNumber;
                   secondNumber = nextNumber;
               Console.WriteLine("Invalid input. Please enter a positive integer.");
           Console.WriteLine("\nPress any key to exit."); // Wait for user to close the console
           Console.ReadKey();
```

```
Enter the number of Fibonacci terms you want to generate:
6
Fibonacci Series:
0 1 1 2 3 5
Press any key to exit.
```

iv. To calculate carry mark, where carry mark = mark * 0.6. Use the following data:

Student	Mark
Student1	67
Student2	55
Student3	89
Student4	34