
Sheet (1)

Object Oriented Programming

Using C#

1. Write a console app that displays the string "Welcome to C# programming" on single line with a single statement.

Sample run :

```
Welcome to C# programming
```

2. Write a console app that displays the string "Welcome to C# programming" on multiple lines with a single statement.

```
Welcome  
to  
C#  
programming
```

3. Write a console application that asks the user to enter his name and two numbers, obtains the two numbers from the user and prints the sum, product, difference and quotient of the two numbers.

```
Enter your name:  
test  
Welcome test!  
  
Now give me a number:  
2  
Now give me another number:  
3  
  
The sum of 2 and 3 is 5.  
The result of subtracting 3 from 2 is -1.  
The product of 2 and 3 is 6.  
The result of dividing 2 by 3 is 0.6666666666666667.  
The remainder after dividing 2 by 3 is 2.  
  
press any key to continue ...
```

4. Write a console application that inputs from the user the radius of a circle and prints the circle's diameter, circumference and area. Use the following formulas (r is the radius): diameter = $2r$, circumference = $2 \pi r$, area = πr^2 .

Sample run :

```
Radius of the circle = ? 5
      Diameter = 10
      Circumference = 31.4159265358979
      Area = 78.5398163397448
Press anykey to continue ...
```

5. Write a console application that reads in two integers and determines and prints whether the first is a multiple of the second. For example, if the user inputs 15 and 3, the first number is a multiple of the second. If the user inputs 2 and 4, the first number is not a multiple of the second. [Hint: Use the modulus operator].

Sample run :

```
First Number    = ? 15
Second Number   = ? 3
    => 15 is a multiple of 3.

run again ?  Enter 1 for 'yes' and 0 for 'no'.  1

First Number    = ? 2
Second Number   = ? 4
    => 2 is not a multiple of 4.

run again ?  Enter 1 for 'yes' and 0 for 'no'.  0_
```