C# Basics

1. Write a program to accept a name and display the same.

# Solution:

using System;

class TestInput

{

static void Main()

{

string strName; Console.WriteLine("Enter Your Name"); strName=Console.ReadLine();

Console.WriteLine("Your Name is {0}", strName);

}

}

1. Write a program that accepts a number between 1 and 7 from the user and returns the corresponding day of a week. (1 - Monday, 2 -Tuesday and so on)

# Solution:

using System;

class DaysOfWeek

{

static void Main()

{

string strDow;

Console.WriteLine("Enter a number between 1 and 7 :"); strDow = Console.ReadLine();

switch(strDow)

{

case "1":

Console.WriteLine("First day of week is Sunday"); break;

case "2":

Console.WriteLine("Second day of week is Monday"); break;

case "3":

Console.WriteLine("Third day of week is Tuesday"); break;

case "4":

Console.WriteLine("Fourth day of week is Wednesday"); break;

case "5":

Console.WriteLine("Fifth day of week is Thursday");

break; case "6":

Console.WriteLine("Sixth day of week is Friday"); break;

case "7":

Console.WriteLine("Seventh day of week is Saturday"); break;

default:

Console.WriteLine("Enter a number between 1 and 7"); break;

}

}

}

1. Write a program that calls a method to find the square of 10.

# Solution:

using System;

class CalcSqr

{

static void Main()

{

int intNum = 10; funcSqr(intNum); Console.ReadLine();

}

static void funcSqr(int intNum)

{

int intsqr;

intsqr = intNum \* intNum; Console.WriteLine("Square of the number 10 is {0}",

intsqr);

}

}

1. Write a program to display the first 10 multiples of 5.

# Solution:

using System;

class TestLoop

{

static void Main()

{

int intRes, intCnt = 1; while (intCnt <= 10)

{

intRes = intCnt \* 5; Console.WriteLine("{0}",intRes); intCnt = intCnt+1;

}

}

}

1. Write a program to list the first 10 prime numbers.

# Solution:

using System;

class PrimeNumbers

{

static void Main()

{

int intNum = 1, intCnt, intNumHalf = 0, intI = 0; bool IsPrime = true;

Console.WriteLine("The First 10 Prime Numbers are:"); while (intI < 10)

{

intNum += 1;

intNumHalf = (intNum / 2); intCnt = 2;

while (intNumHalf >= intCnt)

{

if ((intNum % intCnt) == 0)

{

IsPrime = false; break;

}

intCnt = intCnt+1;

}

if (IsPrime == true)

{

intI++; Console.WriteLine("{0}",intNum);

}

else

IsPrime = true;

}

Console.ReadLine();

}

}

**DO IT YOURSELF**

1. Write a program to accept a number and display whether it is odd or even.
2. Write a program to accept a character as input from the user. If the letter input is any one out of “a”, “e”, “i”, “o”, or “u” then display a message “You have input, Vowel” else display “This is not a Vowel”.