**/\* Roll No. : 3001**

**Program Name : Write a program using if statement. \*/**

**CODE :**

using System;

namespace statement

{

class ifdemo

{

static void Main()

{

int num;

Console.Write("Input an integer : ");

num = Convert.ToInt32(Console.ReadLine());

if (num >= 0)

Console.WriteLine("{0} is a positive number.", num);

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-1.cs

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for Microsoft (R) .NET Framework version 3.5

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E:\Vp-assg 2>2-1

Input an integer : 8

8 is a positive number.

**/\* Roll No. : 3001**

**Program Name : Write a program using if\_else statement. \*/**

**CODE :**

using System;

namespace even

{

class ifelsedemo

{

static void Main()

{

int num1, rem1;

Console.Write("\n\n");

Console.WriteLine("Check whether a number is even or odd :");

Console.WriteLine("---------------------------------------");

Console.Write("Input an integer : ");

num1 = Convert.ToInt32(Console.ReadLine());

rem1 = num1 % 2;

if (rem1 == 0)

Console.WriteLine("{0} is an even integer", num1);

else

Console.WriteLine("{0} is an odd integer", num1);

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-2.cs

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E:\Vp-assg 2>2-2

Check whether a number is even or odd :

---------------------------------------

Input an integer : 6

6 is an even integer

E:\Vp-assg 2>2-2

Check whether a number is even or odd :

---------------------------------------

Input an integer : 13

13 is an odd integer

**/\* Roll No. : 3001**

**Program Name : Write a program to calculate percentage & display grade using**

**Nested if\_else statement. \*/**

**CODE :**

using System;

namespace grad

{

class nested

{

static void Main(string[] args)

{

int m1, m2, m3, per;

Console.WriteLine("Enter marks :");

m1 = Convert.ToInt32(Console.ReadLine());

m2 = Convert.ToInt32(Console.ReadLine());

m3 = Convert.ToInt32(Console.ReadLine());

per = (m1 + m2 + m3) \* 100 / 300;

if (per >= 70)

Console.WriteLine("A");

else if ((per >= 60) && (per <= 70))

{

Console.WriteLine("B");

}

else if ((per >= 50) && (per <= 60))

{

Console.WriteLine("C");

}

else if ((per >= 40) && (per <= 50))

{

Console.WriteLine("Pass");

}

else

{

Console.WriteLine("Fail");

}

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-3.cs

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E:\Vp-assg 2>2-3

Enter marks :

77

85

72

A

**/\* Roll No. : 3001**

**Program Name : Write a program to enter any character & frame it is capital**

**Letter, small letter, digit or special symbol. \*/**

**CODE :**

using System;

namespace convert

{

class character

{

static void Main(string[] args)

{

Console.Write("Enter a character: ");

char ch = (char)Console.Read();

if (Char.IsUpper(ch))

{

Console.WriteLine("The character is an uppercase letter.");

}

else if (Char.IsLower(ch))

{

Console.WriteLine("The character is a lowercase letter.");

}

else if (Char.IsDigit(ch))

{

Console.WriteLine("The character is a number.");

}

else

{

Console.WriteLine("The character is a special symbol.");

}

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-4.cs

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E:\Vp-assg 2>2-4

Enter a character: F

The character is an uppercase letter.

E:\Vp-assg 2>2-4

Enter a character: s

The character is a lowercase letter.

E:\Vp-assg 2>2-4

Enter a character: 4

The character is a number.

E:\Vp-assg 2>2-4

Enter a character: @

The character is a special symbol.

**/\* Roll No. : 3001**

**Program Name : Write a program using else\_ladder. \*/**

**CODE :**

using System;

namespace Conditional

{

class IfElseIfStatement

{

public static void Main(string[] args)

{

int number = 12;

if (number < 5)

{

Console.WriteLine("{0} is less than 5", number);

}

else if (number > 5)

{

Console.WriteLine("{0} is greater than 5", number);

}

else

{

Console.WriteLine("{0} is equal to 5");

}

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-5.cs

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E:\Vp-assg 2>2-5

12 is greater than 5

**/\* Roll No. : 3001**

**Program Name : Write a program to calculate factorial of given number using**

**For loop. \*/**

**CODE :**

using System;

namespace fact

{

class num

{

static void Main(string[] args)

{

int fact = 1, n, i;

Console.Write("Enter number :");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

fact = fact \* i;

}

Console.WriteLine("Factorial={0}", fact);

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-6.cs

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E:\Vp-assg 2>2-6

Enter number :6

Factorial=720

**/\* Roll No. : 3001**

**Program Name : Write a program to input number & print sum of digit using**

**While loop. \*/**

**CODE :**

using System;

namespace sumdigit

{

class sum

{

static void Main()

{

int s = 0, n, r = 0;

Console.Write("Enter a number :");

n = Convert.ToInt32(Console.ReadLine());

while (n > 0)

{

r = n % 10;

s = s + r;

n = n / 10;

}

Console.WriteLine("Sum of digit=" + s);

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-7.cs

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E:\Vp-assg 2>2-7

Enter a number :268

Sum of digit=16

**/\* Roll No. : 3001**

**Program Name : Write a program to print Fibonacci series using do\_while**

**Loop. \*/**

**CODE :**

using System;

namespace fiboni

{

class no

{

static void Main(string[] args)

{

int f0=0,f1=1,f2;

Console.WriteLine("{0}",f0);

Console.WriteLine("{0}",f1);

do

{

f2 = f0 + f1;

f0 = f1;

f1 = f2;

Console.WriteLine("{0}", f2);

} while (f2 <= 10);

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-8.cs

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E:\Vp-assg 2>2-8

0

1

1

2

3

5

8

13

**/\* Roll No. : 3001**

**Program Name : Write a program to print following pattern**

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\* \*/

**CODE :**

using System;

namespace pat

{

class StarPattern

{

static void Main(string[] args)

{

for (int row = 1; row <= 5; ++row)

{

for (int col = 1; col <= row; ++col)

{

Console.Write("\*");

}

Console.WriteLine();

}

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-9.cs

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E:\Vp-assg 2>2-9

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

**/\* Roll No. : 3001**

**Program Name : Write a program using break & continue statement. \*/**

**CODE :**

using System;

namespace statement

{

class conti

{

public static void Main()

{

int n = 10;

while (n < 200)

{

if (n < 50)

{

Console.WriteLine(" " + n);

n = n + 10;

continue;

}

if (n == 50)

{

Console.WriteLine();

n = n + 10;

continue;

}

if (n > 90)

break;

Console.WriteLine(" " + n);

n = n + 10;

}

Console.WriteLine();

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-10.cs

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E:\Vp-assg 2>2-10

10

20

30

40

60

70

80

90

**/\* Roll No. : 3001**

**Program Name : Write a program for menu driven using switch**

**1] Odd or Even**

**2] Armstrong or Not**

**3] Palindrome or Not**

**4] Prime or Not**

**5] Exit \*/**

**CODE :**

using System;

namespace menu

{

class driven

{

static void Main(string[] args)

{

Console.Write("\n\n");

Console.WriteLine("MENU\n");

Console.WriteLine("1] Even & Odd");

Console.WriteLine("2] Armstrong Or Not");

Console.WriteLine("3] Palindrome Or Not");

Console.WriteLine("4] Prime Or Not");

Console.WriteLine("5] Exit");

int n = 0;

while (true)

{

Console.Write("\n");

Console.Write("Enter your choice :");

n = Convert.ToInt32(Console.ReadLine());

switch (n)

{

case 1:

{

int num1, rem1;

Console.Write("\n\n");

Console.WriteLine("Check whether a number is even or odd :");

Console.WriteLine("---------------------------------------------------");

Console.Write("Input an integer : ");

num1 = Convert.ToInt32(Console.ReadLine());

rem1 = num1 % 2;

if (rem1 == 0)

Console.WriteLine("\n{0} is an even integer\n", num1);

else

Console.WriteLine("\n{0} is an odd integer\n", num1);

break;

}

case 2:

{

int y, r, s = 0, y1;

Console.Write("\n\n");

Console.WriteLine("Check whether a number is Armstrong or not :");

Console.WriteLine("---------------------------------------------------------");

Console.Write("Input an integer : ");

y = Convert.ToInt32(Console.ReadLine());

y1 = y;

while (y1 != 0)

{

r = y1 % 10;

s = s + r \* r \* r;

y1 = y1 / 10;

}

if (s == y)

{

Console.WriteLine("\n{0} is armstrong number\n", y);

}

else

{

Console.WriteLine("\n{0} is not a armstrong number\n", y);

}

break;

}

case 3:

{

int x, r, result = 0, x1;

Console.Write("\n\n");

Console.WriteLine("Check whether a number is Palindrome or not :");

Console.WriteLine("----------------------------------------------------------");

Console.Write("Input an integer : ");

x = Convert.ToInt32(Console.ReadLine());

x1 = x;

while (x1 > 0)

{

r = x1 % 10;

result = result \* 10 + r;

x1 = x1 / 10;

}

if (x == result)

{

Console.WriteLine("\n{0} is palindrome number\n", x);

}

else

{

Console.WriteLine("\n{0} is not a palindrome number\n", x);

}

break;

}

case 4:

{

int num;

Console.Write("\n\n");

Console.WriteLine("Check whether a number is Prime or not :");

Console.WriteLine("---------------------------------------------------");

Console.Write("Input an integer : ");

num = Convert.ToInt32(Console.ReadLine());

int k;

k = 0;

for (int i = 1; i <= num; i++)

{

if (num % i == 0)

{

k++;

}

}

if (k == 2)

{

Console.WriteLine("\n{0} is prime number\n", num);

}

else

{

Console.WriteLine("\n{0} is not a prime number\n", num);

}

break;

}

case 5:

{

break;

}

default:

Console.WriteLine("\nSorry, invalid selection\n");

break;

}

n++;

if (n <= 5)

continue;

else

break;

}

}

}

}

**OUTPUT :**

E:\Vp-assg 2>csc 2-11.cs

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E:\Vp-assg 2>2-11

MENU

1] Even & Odd

2] Armstrong Or Not

3] Palindrome Or Not

4] Prime Or Not

5] Exit

Enter your choice :1

Check whether a number is even or odd :

---------------------------------------------------

Input an integer : 8

8 is an even integer

Enter your choice :1

Check whether a number is even or odd :

---------------------------------------------------

Input an integer : 3

3 is an odd integer

Enter your choice :2

Check whether a number is Armstrong or not :

---------------------------------------------------------

Input an integer : 153

153 is armstrong number

Enter your choice :2

Check whether a number is Armstrong or not :

--------------------------------------------------------

Input an integer : 125

125 is not a armstrong number

Enter your choice :3

Check whether a number is Palindrome or not :

----------------------------------------------------------

Input an integer : 121

121 is palindrome number

Enter your choice :3

Check whether a number is Palindrome or not :

----------------------------------------------------------

Input an integer : 145

145 is not a palindrome number

Enter your choice :4

Check whether a number is Prime or not :

---------------------------------------------------

Input an integer : 7

7 is prime number

Enter your choice :4

Check whether a number is Prime or not :

---------------------------------------------------

Input an integer : 12

12 is not a prime number

Enter your choice :6

Sorry, invalid selection

Enter your choice :5

E:\Vp-assg 2>2-11