# **300986134 Parth Chandgadhiya**

# **Code 01 [20]**

using System;

using static System.Console;

namespace program20

{

public class Program

{

public static void Main(string[] args)

{

int a = 0;

int f, s = 0;

int add;

int mi;

int mu;

int div;

Console.WriteLine("To add two integer, enter 1\nTo subtract two integer , enter 2\nTo Multiply two number , enter 3\nTo divide two integer ,enter 4\nTo exit program , enter 5");

Console.WriteLine("\nPlease enter your choice: ");

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

if (a == 1)

{

Console.WriteLine("\nPlease enter your first integer: ");

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

Console.WriteLine("\nPlease enter your Second integer: ");

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

add = f + s ;

Console.WriteLine("\nThe addition of {0} and {1} is : {2}",f,s,add);

}

else if (a == 2)

{

Console.WriteLine("\nPlease enter your first integer: ");

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

Console.WriteLine("\nPlease enter your Second integer: ");

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

mi = f - s;

Console.WriteLine("\nThe subtaction of {0} and {1} is : {2}", f, s, mi);

}

else if (a == 3)

{

Console.WriteLine("\nPlease enter your first integer: ");

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

Console.WriteLine("\nPlease enter your Second integer: ");

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

mu = f \* s;

Console.WriteLine("\nThe Multiplication of {0} and {1} is : {2}", f, s, mu);

}

else if (a == 4)

{

Console.WriteLine("\nPlease enter your first integer: ");

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

Console.WriteLine("\nPlease enter your Second integer: ");

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

div = f / s;

Console.WriteLine("\nThe Division of {0} and {1} is : {2}", f, s, div);

}

else

{

Console.WriteLine("You have sucessfully closed the program");

}

Console.ReadLine();

}

}

}

# **Code 02 [13]**

# **1.} using if**

using System;

using static System.Console;

namespace program20

{

public class Program

{

public static void Main(string[] args)

{

char sdc;

Console.WriteLine("To check either your selected letter is consonant or vowel");

Console.WriteLine("\nPlease enter your choice: ");

sdc = (Convert.ToChar(Console.ReadLine()));

if (sdc == 'a' || sdc == 'A' || sdc == 'u' || sdc == 'U'

|| sdc == 'e' || sdc == 'E' || sdc == 'i' || sdc == 'I' || sdc == 'o' || sdc == 'O')

{

Console.WriteLine("\nEntered letter is vowel");

}

else

{

Console.WriteLine("\nEntered letter is consonant");

}

Console.ReadLine();

}

}

}

# **2.} using switch case**

using System;

using static System.Console;

namespace alpahbet

{

public class program

{

public static void Main(string[] args)

{

char sdc;

WriteLine("Please enter your letter ");

sdc = Convert.ToChar(ReadLine());

switch (sdc)

{

case 'a':

WriteLine("The letter is vowel");

break;

case 'A':

WriteLine("The letter is vowel");

break;

case 'e':

WriteLine("The letter is vowel");

break;

case 'E':

WriteLine("The letter is vowel");

break;

case 'i':

WriteLine("The letter is vowel");

break;

case 'I':

WriteLine("The letter is vowel");

break;

case 'o':

WriteLine("The letter is vowel");

break;

case 'O':

WriteLine("The letter is vowel");

break;

case 'u':

WriteLine("The letter is vowel");

break;

case 'U':

WriteLine("The letter is vowel");

break;

default:

WriteLine("The letter is consonant");

break;

}

}

}

}

# **3.} using ternary operator**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace alphabet

{

class Program

{

static void Main(string[] args)

{

char sdc;

string alpha = "";

//Receiving sdc from the user

Write("Please etner your sdc: ");

sdc = Convert.ToChar(ReadLine());

alpha = (sdc == 'a' || sdc == 'A' || sdc == 'u' || sdc == 'U' || sdc == 'e' || sdc == 'E' || sdc == 'i' || sdc == 'I' || sdc == 'o' || sdc == 'O') ? "vowel" : "consonant";

WriteLine("\nGiven letter is " + alpha);

}

}

}

# **Code 03 [2]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace alphabet

{

public class Program

{

static void Main(string[] args)

{

int a,b = 0;

string ans;

WriteLine("Please enter your number: ");

a = Convert.ToInt32(ReadLine());

b = a % 2;

ans = (b == 0) ? "even" : "odd";

WriteLine("The entered number is "+ans);

}

}

}

# **Code 04 [1]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace alphabet

{

public class Program

{

static void Main(string[] args)

{

double a,b = 0;

string check;

WriteLine("Please enter your first number to check: ");

a = Convert.ToDouble(ReadLine());

WriteLine("Please enter your Second number to check: ");

b = Convert.ToDouble(ReadLine());

check = (a == b) ? "equal" : "unequal";

WriteLine("The entered numbers are " +check);

}

}

}

# **Code 05 [7]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace alphabet

{

public class Program

{

static void Main(string[] args)

{

double a,b,c= 0;

WriteLine("Please enter your first number to check: ");

a = Convert.ToDouble(ReadLine());

WriteLine("Please enter your Second number to check: ");

b = Convert.ToDouble(ReadLine());

WriteLine("Please enter your Third number to check: ");

c = Convert.ToDouble(ReadLine());

if (b > c)

{

if (b > a)

{

WriteLine("{0}is the biggest number", b);

}

else

{

WriteLine("{0} is the biggest number",a);

}

}

else

{

if (c > a)

{

WriteLine("{0} is the biggest number", c);

}

}

}

}

}

# **Code 06[8]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace Sum

{

class Program

{

static void Main(string[] args)

{

int a,b,c =0;

int biggest,smallest,bigger,smaller,middle =0 ;

Console.Write("Please enter number a: ");

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

Console.Write("\n");

Console.Write("Please enter number b: ");

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

Console.Write("\n");

Console.Write("Please enter number c: ");

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

Console.Write("\n");

if (b > c)

{

bigger = b;

smaller = c;

}

else

{

bigger = c;

smaller = b;

}

if (a > bigger)

{

biggest = a;

}

else

{

biggest = bigger;

}

if (a < smaller)

{

smallest = a;

}

else

{

smallest = smaller;

}

WriteLine("the biggest number among all is {0}\n",biggest);

WriteLine("The smallest number among all is {0}\n", smallest);

middle = a + b + c - biggest - smallest;

WriteLine("Number in ascending order: {0}, {1}, {2}\n",biggest,middle,smallest);

}

}

}

# **Code 07 [9]**

using System;

using static System.Console;

namespace ConsoleApp3

{

class Program

{

static void Main(string[] args)

{

WriteLine("This program is to find x and y co-ordinate and in whuch quadrant they are located.\n");

double x, y = 0;

WriteLine("Please enter your x co-ordinate: ");

x = Convert.ToDouble(ReadLine());

WriteLine("Please enter your y co-ordinate: ");

y = Convert.ToDouble(ReadLine());

if (x >= 0 && y >= 0)

{

WriteLine(" The coordinate point ({0},{1}) lies in First quadrant", x, y);

}

else if (x <= 0 && y >= 0)

{

WriteLine(" The coordinate point ({0},{1}) lies in Second quadrant", x, y);

}

else if (x <= 0 && y <= 0)

{

WriteLine(" The coordinate point ({0},{1}) lies in Third quadrant", x, y);

}

else

{

WriteLine(" The coordinate point ({0},{1}) lies in Fourth quadrant", x, y);

}

}

}

}

# **Code 08[14]**

using System;

using static System.Console;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

double s;

double b;

double p;

double l;

WriteLine("Please enter your buying price: ");

b = Convert.ToDouble(ReadLine());

WriteLine("Please enter your selling price: ");

s = Convert.ToDouble(ReadLine());

if (s > b)

{

p = s - b;

WriteLine(" You can book your profit amount: {0}",p);

}

else if (b > s)

{

l = b - s;

WriteLine(" You can book your loss amount: {1} ",l);

}

else

{

WriteLine("No profit or loss");

}

}

}

}

# **Code 09[15]**

using System;

using static System.Console;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

char a;

string t;

WriteLine("Please enter your grade: ");

a = Convert.ToChar(ReadLine());

switch (a)

{

case 'E':

t = " Excellent";

break;

case 'V':

t = " Very Good";

break;

case 'G':

t = " Good ";

break;

case 'A':

t = " Average";

break;

case 'F':

t = " Fails";

break;

default:

t = "Invalid Grade Found.";

break;

}

WriteLine("You have chosen : {0}",t);

}

}

}

# **Code 10[29]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

int i;

int j;

int k;

for (i = 1; i <= 4; i++)

{

for (k = 4 - i; k >= 1; k--) { Write(" "); }

for (j = 1; j <= i; j++) { Write("\* "); }

WriteLine("");

}

}

}

}

# **Code 11[27]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

int i;

int j;

int x;

for (i = 1; i <= 4; i++)

{

WriteLine("");

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

{

Write("{0}",j);

}

}

WriteLine();

}

}

}

# **Code 12[28]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using static System.Console;

namespace ConsoleApp2

{

class Program

{

static void Main(string[] args)

{

int i =0;

int j =0;

int s = 1;

for (i = 1; i <= 4; i++)

{

WriteLine("");

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

{

Write("{0,4}",s++);

}

}

WriteLine();

}

}

}