//Task6\_1.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

askName();

}

static void askName()

{

Console.WriteLine("Hello World");

}

}

}

//Task6\_2.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static void DisplayName()

{

Console.WriteLine("Give your name : Alvin ");

}

static void DisplayAdress()

{

Console.WriteLine("My adress : Taivaanpankontie 14 a 1/2");

}

static int DisplayAge()

{

int myName = 18;

Console.WriteLine("My age :"+ myName);

return (myName);

}

}

}

//Task6\_3.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

int ReturnArgument=0;

Console.WriteLine(DisplayNumber(ReturnArgument));

}

static int DisplayNumber(int ReturnNumber)

{

ReturnNumber = 128;

return ReturnNumber;

}

}

}

//Task6\_4.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine (askNumber());

}

static double askNumber()

{

double makan;

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

makan = double.Parse(Console.ReadLine());

Console.Clear();

return (makan);

}

}

}

//Task6\_5.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

Display();

}

static double askNumber1()

{

double makan;

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

makan = double.Parse(Console.ReadLine());

return (makan);

}

static double askNumber2()

{

double makan;

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

makan = double.Parse(Console.ReadLine());

return (makan);

}

static double Calculate()

{

return askNumber1() + askNumber2();

}

static double Display()

{

double a;

a = 1;

Console.WriteLine(Calculate());

return a;

}

}

}

//Task6\_6.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

display();

}

static int askInt()

{

int makan;

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

makan = int.Parse(Console.ReadLine());

return (makan);

}

static float askFloat()

{

float makan;

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

makan = float.Parse(Console.ReadLine());

return (makan);

}

static string askString()

{

string makan;

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

makan = Console.ReadLine();

return (makan);

}

static void display()

{

Console.WriteLine(askInt());

Console.WriteLine(askFloat());

Console.WriteLine(askString());

}

}

}

//Task6\_7.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

int makan = AskAndTestNumber();

switch (makan)

{

case var expression when makan < 0:

Console.WriteLine("-1");

break;

case var expression when makan > 0:

Console.WriteLine("1");

break;

case var expression when makan == 0:

Console.WriteLine("0");

break;

}

}

static int AskAndTestNumber()

{

int makan;

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

makan = int.Parse(Console.ReadLine());

return (makan);

}

}

}

//Task6\_8.cs

//short script

namespace Year

{

class Program

{

static void Main(string[] args)

{

char makan = askChar();

switch (makan)

{

case var expression when (makan >=48 && makan <=57):

Console.WriteLine("0");

break;

case var expression when (makan >= 65 && makan <= 90):

Console.WriteLine("1");

break;

case var expression when (makan >= 97 && makan <= 122):

Console.WriteLine("1");

break;

default:

Console.WriteLine("2");

break;

}

}

static char askChar()

{

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

char a = Console.ReadKey(false).KeyChar;

Console.WriteLine();

return a;

}

}

}

//Task6\_8.cs

//long script

namespace Year

{

class Program

{

static void Main(string[] args)

{

char vOut = askChar();

switch (vOut) {

case '0':

case '1':

case '2':

case '3':

case '4':

case '5':

case '6':

case '7':

case '8':

case '9':

Console.WriteLine("0");

break;

case 'a':

case 'b':

case 'c':

case 'd':

case 'e':

case 'f':

case 'g':

case 'h':

case 'i':

case 'j':

case 'k':

case 'l':

case 'm':

case 'n':

case 'o':

case 'p':

case 'q':

case 'r':

case 's':

case 't':

case 'u':

case 'v':

case 'w':

case 'x':

case 'y':

case 'z':

case 'A':

case 'B':

case 'C':

case 'D':

case 'E':

case 'F':

case 'G':

case 'H':

case 'I':

case 'J':

case 'K':

case 'L':

case 'M':

case 'N':

case 'O':

case 'P':

case 'Q':

case 'R':

case 'S':

case 'T':

case 'U':

case 'V':

case 'W':

case 'X':

case 'Y':

case 'Z':

Console.WriteLine("1");

break;

default:

Console.WriteLine("2");

break;

}

}

static char askChar()

{

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

char a = Console.ReadKey(false).KeyChar;

Console.WriteLine();

return a;

}

}

}

//Task6\_9.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine(display());

}

static int [] Number()

{

int[] number = new int[10];

return number;

}

static int[] Ask()

{

int[] makan = new int[0];

for (int ia = 0; ia < 10; ia++)

{

Console.Write("Give {0} number :", ia + 1);

Number()[ia] = int.Parse(Console.ReadLine());

}

return makan;

}

static int[] display()

{

int[] er = Ask();

foreach (int i in er)

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

return er;

}

}

}

//Task6\_10.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayEvenNumbers();

}

static int[] GenerateNumbers()

{

int[] numbers = { 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58 };

return numbers;

}

static int[] DisplayEvenNumbers()

{

int[] makan = GenerateNumbers();

for (int ia = 39; ia < 58 ; ia++)

{

if (ia % 2 == 0)

{

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

}

}

return makan;

}

}

}

//Task6\_11.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayTotalPoints();

}

static float AskLength()

{

float makan;

Console.Write("Jump Length : ");

makan = float.Parse(Console.ReadLine());

return makan;

}

static float AskJudgement()

{

float sum, sd, a, b, c, d, e;

sd = 0;

Console.Write("Give a point 1 : ");

a = float.Parse(Console.ReadLine());

if (a <= 20 && a >= 0)

{

Console.Write("Give a point 2 : ");

b = float.Parse(Console.ReadLine());

if (b <= 20 && b >= 0)

{

Console.Write("Give a point 3 : ");

c = float.Parse(Console.ReadLine());

if (c <= 20 && c >= 0)

{

Console.Write("Give a point 4 : ");

d = float.Parse(Console.ReadLine());

if (d <= 20 && d >= 0)

{

Console.Write("Give a point 5 : ");

e = float.Parse(Console.ReadLine());

if (e <= 20 && e >= 0)

{

sum = (a + b + c + d + e) / 5;

}

else { Console.WriteLine("Input from 0 - 20!"); }

}

else { Console.WriteLine("Input from 0 - 20!"); }

}

else { Console.WriteLine("Input from 0 - 20!"); }

}

else { Console.WriteLine("Input from 0 - 20!"); }

}

else { Console.WriteLine("Input from 0 - 20!"); }

return sd;

}

static double CalculatePoints()

{

double CR\_POINT = 90;

double sum = (AskLength() - CR\_POINT)\* 1.8 + AskJudgement() + 60;

return sum;

}

static void DisplayTotalPoints()

{

Console.WriteLine(CalculatePoints());

}

}

}

//Task6\_12.cs

namespace Year

{

class Program

{

static void Main()

{

DisplayAll();

}

static double AskValues()

{

double cathetus1, cathetus2, sum;

Console.Write("Give cathetus 1 : ");

cathetus1 = double.Parse(Console.ReadLine());

Console.Write("Give cathetus 2 : ");

cathetus2 = double.Parse(Console.ReadLine());

sum = cathetus1 \* cathetus1 + cathetus2 \* cathetus2;

return sum;

}

static double CalHypotenuse()

{

double makan = Math.Sqrt(AskValues());

return makan;

}

static void DisplayAll()

{

Console.WriteLine(CalHypotenuse());

}

}

}

//Task6\_13.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static string DisplayName()

{

String myName;

Console.Write("Give your name : ");

myName = Console.ReadLine();

return (myName);

}

static string DisplayAdress()

{

String myName;

Console.Write("Give your adress : ");

myName = Console.ReadLine();

return (myName);

}

static int DisplayAge()

{

int myName;

Console.Write("Give your age : ");

myName = int.Parse(Console.ReadLine());

return (myName);

}

}

}

//Task6\_14.cs

namespace Year

{

class Program

{

static void Main()

{

int a = 12, b = 23;

void ReadValues()

{

Console.WriteLine(a);

Console.WriteLine(b);

}

ReadValues();

}

}

}

//Task6\_15.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static string DisplayName()

{

String myName;

Console.Write("Give your name : ");

myName = Console.ReadLine();

return (myName);

}

static string DisplayAdress()

{

String myName;

Console.Write("Give your adress : ");

myName = Console.ReadLine();

return (myName);

}

static int DisplayAge()

{

int myName;

Console.Write("Give your age : ");

myName = int.Parse(Console.ReadLine());

return (myName);

}

}

}

//Task6\_16.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static string DisplayName()

{

String myName;

Console.Write("Give your name : ");

myName = Console.ReadLine();

return (myName);

}

static string DisplayAdress()

{

String myName;

Console.Write("Give your adress : ");

myName = Console.ReadLine();

return (myName);

}

static int DisplayAge()

{

int myName;

Console.Write("Give your age : ");

myName = int.Parse(Console.ReadLine());

return (myName);

}

}

}

//Task6\_17.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static string DisplayName()

{

String myName;

Console.Write("Give your name : ");

myName = Console.ReadLine();

return (myName);

}

static string DisplayAdress()

{

String myName;

Console.Write("Give your adress : ");

myName = Console.ReadLine();

return (myName);

}

static int DisplayAge()

{

int myName;

Console.Write("Give your age : ");

myName = int.Parse(Console.ReadLine());

return (myName);

}

}

}

//Task6\_18.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine($"parameter count = {args.Length}");

for (int i = 0; i < args.Length; i++)

{

Console.WriteLine($"Arg[{i}] = [{args[i]}]");

}

}

}

}

//Task6\_19.cs

namespace Year

{

class Program

{

static int[] makan;

static void Main(string[] args)

{

Console.Write("Give Width : ");

int a = int.Parse(Console.ReadLine());

Console.Write("Give Height : ");

int b = int.Parse(Console.ReadLine());

Console.SetWindowSize(a,b);

Console.BackgroundColor = ConsoleColor.White;

Console.ForegroundColor = ConsoleColor.Blue;

Console.Write("Give a title : ");

String maka = Console.ReadLine();

Console.Title = maka;

makan = new int[10];

Random r = new Random();

int i;

for (i = 0; i < 10; i++)

{

makan[i] = r.Next(100);

Console.WriteLine("{0}", makan[i]);

}

}

}

}

//Task6\_20.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

DisplayName();

DisplayAdress();

DisplayAge();

}

static string DisplayName()

{

String myName;

Console.Write("Give your name : ");

myName = Console.ReadLine();

return (myName);

}

static string DisplayAdress()

{

String myName;

Console.Write("Give your adress : ");

myName = Console.ReadLine();

return (myName);

}

static int DisplayAge()

{

int myName;

Console.Write("Give your age : ");

myName = int.Parse(Console.ReadLine());

return (myName);

}

}

}

//Task6\_21.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

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

int num = int.Parse(Console.ReadLine());

Console.WriteLine(CalFactorial(num));

}

static int CalFactorial(int num)

{

if (num == 1)

return 1;

else

Console.WriteLine(num);

return CalFactorial(num - 1);

}

}

}

//Task6\_22.cs

namespace Year

{

class Program

{

static void Main(string[] args)

{

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

int num = int.Parse(Console.ReadLine());

Console.WriteLine("Factorial of "

+ num + " is " + CalFactorial(num));

}

static int CalFactorial(int num)

{

if (num == 0)

return 1;

else

return num \* CalFactorial(num - 1);

}

}

}