C# - Lab Sheet 01

Question 01

namespace ConsoleApp1

{

internal class Program

{

static void Main(string[] args)

{

string name;

Console.WriteLine("Enter your name:");

name = Console.ReadLine();

Console.WriteLine("Hello,"+name);

Console.ReadLine();

}

}

}

Question 02

internal class Program

{

static void Main(string[] args)

{

double width;

double height;

Console.WriteLine("Enter the width of the rectangle");

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

Console.WriteLine("Enter the heigth of the rectangle");

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

double area=width \* height;

double perimeter = 2\*(width + height);

Console.WriteLine("Area of the rectangle is" + area);

Console.WriteLine("Area of the perimeter is " + perimeter);

Console.ReadLine();

}

}

Question 03

namespace Lab2

{

internal class Program

{

static void Main(string[] args)

{

double radius;

Console.WriteLine("Enter tje radius of the circle");

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

double perimeter = 2 \* Math.PI \* radius;

Console.WriteLine("Perimeter of the circle is" + perimeter);

Console.ReadLine();

}

}

}

Question 04

namespace Lab2

{

internal class Program

{

static void Main(string[] args)

{

int num;

Console.WriteLine("Enter a number");

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

if (num >= 70)

{

Console.WriteLine("PASS");

}

else

{

Console.WriteLine("FAIL");

}

Console.ReadLine();

}

}

}

Question 5

namespace Lab2

{

internal class Program

{

static void Main(string[] args)

{

int month;

Console.WriteLine("Enter thr month in number:");

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

switch (month)

{

case 1:

Console.WriteLine("January");

break;

case 2:

Console.WriteLine("February");

break;

case 3:

Console.WriteLine("March");

break;

case 4:

Console.WriteLine("April");

break;

case 5:

Console.WriteLine("May");

break;

case 6:

Console.WriteLine("June");

break;

case 7:

Console.WriteLine("July");

break;

case 8:

Console.WriteLine("August");

break;

case 9:

Console.WriteLine("September");

break;

case 10:

Console.WriteLine("October");

break;

case 11:

Console.WriteLine("November");

break;

case 12:

Console.WriteLine("December");

break;

case default;

Console.WriteLine("Invalid data!");

break;

}

Console.ReadLine();

}

}

}

Question 6

namespace Lab2

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter 10 numbers:");

float sum = 0;

int count = 0;

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

{

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

sum += num;

count++;

}

float avg = 0;

avg = sum / count;

Console.WriteLine("Sum:" + sum);

Console.WriteLine("Average:" + avg);

Console.ReadLine();

}

}

}

Question 7

namespace Lab2

{

internal class Program

{

static void Main(string[] args)

{

for (int i = 0; i < 100; i++)

{

if (i % 2 == 0)

{

Console.WriteLine(i);

}

}

Console.ReadLine();

}

}

}

Question 8

namespace ConsoleApp1

{

internal class Program

{

static void Main(string[] args)

{

long num; // data type long was used as the integer data type was not able to hold long numbers

do

{

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

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

}

while (num > 0);

}

}

}

Question 9

namespace ConsoleApp1

{

internal class Program

{

static void Main(string[] args)

{

float num;

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

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

if (num % 5 == 0)

{

Console.WriteLine("Entered number is divisible by 5.");

}

else

{

Console.WriteLine("Entered number is not divisible by 5.");

}

Console.ReadLine();

}

}

}

Question 10 x