//Task3\_1.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

String userName;

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

userName = Console.ReadLine();

int salary;

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

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

int taxRate;

Console.Write("Give your tax rate : ");

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

Console.Write("%");

Console.WriteLine();

double tax = taxRate \* 0.01;

double ta = salary \* tax;

double t = salary - ta;

Console.WriteLine("Your salary is {0} and your money after tax is {1}", salary, t);

}

}

}

//Task3\_2.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

int score1;

int score2;

int score3;

int score4;

int score5;

{

Console.WriteLine("Give your math score: ");

score1 = int.Parse(Console.ReadLine());

while (score1 < 0 || score1 > 5)

{

Console.WriteLine("Out of range 0 - 5: ");

score1 = int.Parse(Console.ReadLine());

}

{

Console.WriteLine("Give your Multicultural score: ");

score5 = int.Parse(Console.ReadLine());

while (score5 < 0 || score5 > 5)

{

Console.WriteLine("Out of range 0 - 5: ");

score5 = int.Parse(Console.ReadLine());

}

{

Console.WriteLine("Give your English score: ");

score4 = int.Parse(Console.ReadLine());

while (score4 < 0 || score4 > 5)

{

Console.WriteLine("Out of range 0 - 5: ");

score4 = int.Parse(Console.ReadLine());

}

{

Console.WriteLine("Give your Biology score: ");

score3 = int.Parse(Console.ReadLine());

while (score3 < 0 || score3 > 5)

{

Console.WriteLine("Out of range 0 - 5: ");

score3 = int.Parse(Console.ReadLine());

}

{

Console.WriteLine("Give your Physics score: ");

score2 = int.Parse(Console.ReadLine());

while (score2 < 0 || score2 > 5)

{

Console.WriteLine("Out of range 0 - 5: ");

score2 = int.Parse(Console.ReadLine());

}

int scores1 = score1+score2+score3+score4+score5;

double scores = scores1 \*0.2;

Console.WriteLine("scoresum is {0:f1}", scores);

}

}

}

}

}

}

}

}

//Task3\_3.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

double PI = 3.14;

int r;

int A;

double V;

int P;

Console.Write("Input the radius: ");

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

P = 2 \* (int)PI \* r;

A = (int)PI \* r \* r;

V = PI \* r \* r \* r\*4/3;

Console.WriteLine("The perimeter is {0}, the area is {1}, and the volume is {2}",P,A,V);

}

}

}

//Task3\_4.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

double PI = 3.14;

int r;

int A;

double V;

int P;

Console.Write("Input the radius: ");

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

P = 2 \* (int)PI \* r;

double area = Math.Pow(r,2);

A = (int)PI \* (int)area;

double volume = Math.Pow(r,3);

V = PI \* volume \*4/3;

Console.WriteLine("The perimeter is {0}, the area is {1}, and the volume is {2}",P,A,V);

}

}

}

//Task3\_5.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

double a;

double b;

double c;

Console.Write("Insert Opposite a : ");

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

Console.Write("Insert Adjacent b : ");

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

double c1 = Math.Pow(a, 2) + Math.Pow(b, 2);

double c2 = Math.Sqrt(a\*a+b\*b);

c = Math.Sqrt(c1);

Console.WriteLine("The hypotenuse using 1st formula is : {0}", c);

Console.WriteLine("The hypotenuse using 2nd formula is : {0}", c2);

}

}

}

//Task3\_6.cs

namespace My\_own\_program

{

class Program

{

static void Main(string[] args)

{

double a, b, c;

double x, y;

Console.WriteLine("Parabola calculation");

Console.Write("Give a: ");

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

Console.Write("Give b: ");

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

Console.Write("Give c: ");

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

Console.Write("Give x: ");

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

y = a \* Math.Pow(x, 2) + b \* x + c;

Console.WriteLine("y = " + y);

}

}

}

//Task3\_7.cs

namespace My\_own\_program

{

class Quadraticroots

{

double a, b, c;

public void read()

{

Console.WriteLine("\n To find the roots of a quadratic equation of " +

"the form a\*x\*x + b\*x + c = 0");

Console.Write("\n Enter value for a : ");

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

Console.Write("\n Enter value for b : ");

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

Console.Write("\n Enter value for c : ");

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

}

public void compute()

{

int m;

double r1, r2, d1;

d1 = b \* b - 4 \* a \* c;

if (a == 0)

m = 1;

else if (d1 > 0)

m = 2;

else if (d1 == 0)

m = 3;

else

m = 4;

switch (m)

{

case 1: Console.WriteLine(@"\n Not a Quadratic equation,

Linear equation");

Console.ReadLine();

break;

case 2: Console.WriteLine("\n Roots are Real and Distinct");

r1 = (-b + Math.Sqrt(d1)) / (2 \* a);

r2 = (-b - Math.Sqrt(d1)) / (2 \* a);

Console.WriteLine("\n First root is {0:#.##}", r1);

Console.WriteLine("\n Second root is {0:#.##}", r2);

Console.ReadLine();

break;

case 3: Console.WriteLine("\n Roots are Real and Equal");

r1 = r2 = (-b) / (2 \* a);

Console.WriteLine("\n First root is {0:#.##}", r1);

Console.WriteLine("\n Second root is {0:#.##}", r2);

Console.ReadLine();

break;

case 4: Console.WriteLine("\n Roots are Imaginary");

r1 = (-b) / (2 \* a);

r2 = Math.Sqrt(-d1) / (2 \* a);

Console.WriteLine("\n First root is {0:#.##} + i {1:#.##}",

r1, r2);

Console.WriteLine("\n Second root is {0:#.##} - i {1:#.##}",

r1, r2);

Console.ReadLine();

break;

}

}

}

class Roots

{

public static void Main()

{

Quadraticroots qr = new Quadraticroots();

qr.read();

qr.compute();

}

}

}