abstract class SekilBase

{

private double r;

protected double R

{

get

{

return r;

}

set

{

if (value < 0)

r = 0;

else

r = value;

}

}

private double h;

protected double H

{

get

{

return h;

}

set

{

if (value < 0)

{

h = 0;

r = 0;

}

else

h = value;

}

}

public SekilBase() { }

public SekilBase(double r, double h)

{

this.R = r;

this.H = h;

}

protected abstract double AlanHesapla();

public void EkranaYazdir()

{

Console.WriteLine(this.GetType().Name + " Alanı = {0:F2}", this.AlanHesapla());

}

}

class Nokta:SekilBase

{

protected override double AlanHesapla()

{

return 0;

}

}

class Daire : SekilBase

{

public Daire(double r)

: base(r, 0)

{

}

protected override double AlanHesapla()

{

return Math.PI \* R \* R;

}

}

class Kure : SekilBase

{

public Kure(double r)

: base(r, 0)

{

}

protected override double AlanHesapla()

{

return 4 \* Math.PI \* R \* R;

}

}

class Silindir : SekilBase

{

public Silindir(double r, double h)

: base(r, h)

{

}

protected override double AlanHesapla()

{

return 2 \* Math.PI \* R \* R + 2 \* Math.PI \* R \* H;

}

}

class Dikdortgen : SekilBase

{

public Dikdortgen(double en, double boy)

: base(en, boy)

{

}

protected override double AlanHesapla()

{

return R \* H;

}

}

class GenelSinif

{

private double yariCap;

private double yukseklik;

public GenelSinif()

{

this.EkranOku();

this.NesneOlustur();

}

private void EkranOku()

{

Console.Write("Yarıçap : ");

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

Console.Write("Yukselik: ");

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

}

private void NesneOlustur()

{

Nokta yeniNokta = new Nokta();

Daire yeniDaire = new Daire(yariCap);

Kure yeniKure = new Kure(yariCap);

Silindir yeniSilindir = new Silindir(yariCap, yukseklik);

Dikdortgen yeniDikdortgen = new Dikdortgen(yariCap, yukseklik); // Dikdörtgen

// Ekranda Gösterilmesi

yeniNokta.EkranaYazdir();

yeniDaire.EkranaYazdir();

yeniKure.EkranaYazdir();

yeniSilindir.EkranaYazdir();

yeniDikdortgen.EkranaYazdir(); //Dikdörtgen

}

}

class Program

{

static void Main(string[] args)

{

GenelSinif gs = new GenelSinif();

}

}