1/

```
package pkg01.temperature;
class Celsius {
    public double celsius;
    Celsius(double c){
        Celsius = c;
    }
    public double display_fahrenheit(){
        return (9/5*celsius)+32;
    }
}
class Fahrenheit{
    private double fahrenheit;
    Fahrenheit(double fahrenheit){
        this.fahrenheit = fahrenheit;
    }
    public double display_celsius(){
        return (fahrenheit-32)*5/9;
    }
}
public class Temperature {
    public static void main(String[] args){
        Celsius c = new Celsius(20);
```

② System.out.println(c.display_fahrenheit()+"F");

Fahrenheit f = new Fahrenheit(50);

System.out.println(f.display_celsius()+"C");

}

}

— o —

3) package pk02.car_parking;

class Carpark{

private int carid, charge;

private float parkedtime;

public void setCarid(int carid){

this.carid = carid;

}

public int getCarid(){

return carid;

}

public void setCharge(int charge){

this.charge = charge;

}

public int getCharge(){

return charge;

}

```
    public void setParcked_time(float parktime){
        this.parktime = parktime;
    }
    public float getParcked_time(){
        return parktime;
    }
    void display(){
        System.out.println(getCarid());
        System.out.println(getCharge()+"%");
        System.out.println(getParcked_time());
    }
}
public class Car_parking{
    public static void main(String[] args){
        Carpark c = new Carpark();
        c.setCarid(29);
        c.setCharge(80);
        c.setParcked_time(7.3f);
        c.display();
    }
}
```

Q 3/

```
package pkg03.area_perimeter;
import java.util.Scanner;

class Circle{
    private int r;
    public void read(){
        Scanner input = new Scanner(System.in);
        System.out.print("Enter the radious: ");
        r = input.nextInt();
    }
    public double area(){
        return 3.1416*r*r;
    }
    public double circumference(){
        return 2*3.1416*r;
    }
    void display_circle(){
        System.out.println(area());
        System.out.println(circumference());
    }
}
class Rectangle{
    private int w,h;
    public void read(){
        Scanner input=new Scanner(System.in);
        System.out.println("Enter weidth:");
```

```
        w = input.nextInt();
        System.out.print("Enter height:");
        h= input.nextInt();
    }
    public double area(){
        return w*h;
    }
    public double p(){
        return 2*(w+h);
    }
    void display_rectangle(){
        System.out.println(area());
        System.out.println(p());
    }
}
class Triangle{
    private int a,b,h;
    public void read(){
        Scanner input = new Scanner(System.in);
        System.out.print("A is :" +a);
        a=input.nextInt();
        System.out.print("B is :" +b);
        b=input.nextInt();
        System.out.print("C is :" +h);
        h= input.nextInt();
}
```

(6)

```
    public double area(){
        return 0.5*b*h;
    }
    public double perimeter(){
        return a+b+h;
    }
    void display_triangle(){
        System.out.println(area());
        System.out.println(perimeter());
    }
}
public class Area_perimeter {
    public static void main(String[] args){
        Circle c=new circle();
        c.read();
        c.display_circle();

        Rectangle r= new Rectangle();
        r.read();
        r.display_rectangle();

        Triangle t = new Traingle();
        t.read();
        t.display_triangle();
    }
}
```

4) package pkg04.complex;

```
class Complex{
    public double a;
    public double b;

    Complex (double a, double b){
        this.a = a;
        this.b = b;
    }
    Complex add (Complex c){
        return new Complex(a+c.a, b+c.b);
    }
    Complex sub (Complex c){
        return new Complex(a-c.a, b-c.b);
    }
    Complex mult (Complex c){
        double x = a*c.b - b*c.b;
        double y = a*c.b + b*c.a;
        return new Complex (x,y);
    }
    void display (){
        System.out.println (a+ " +"+b);
    }
}
public class Complexdisplay {
    public static void main (String[] args){
        Complex c1 = new Complex (7,2);
        Complex c2 = new Complex (4,5);
```

⑧

```
        Complex sum = c1.add(c2);
        Complex diff = c1.sub(c2);
        Complex mul = c1.mult(c2);

        sum.display();
        diff.display();
        mul.display();
    }
}
```

—o—

5|

```
package pkg05.overcriden;
class Animal{
    public void sound(){
        System.out.println("Animal Sound");
    }
}
class Dog extends Animal{
    @Override
    public void sound(){
        System.out.println("Dog sound: bow bow");
    }
}
public class Overcriden{
    public static void main(String[] args){
        Animal a = new Animal();
        a.sound();
        a = new Dog();
        a.sound();
```