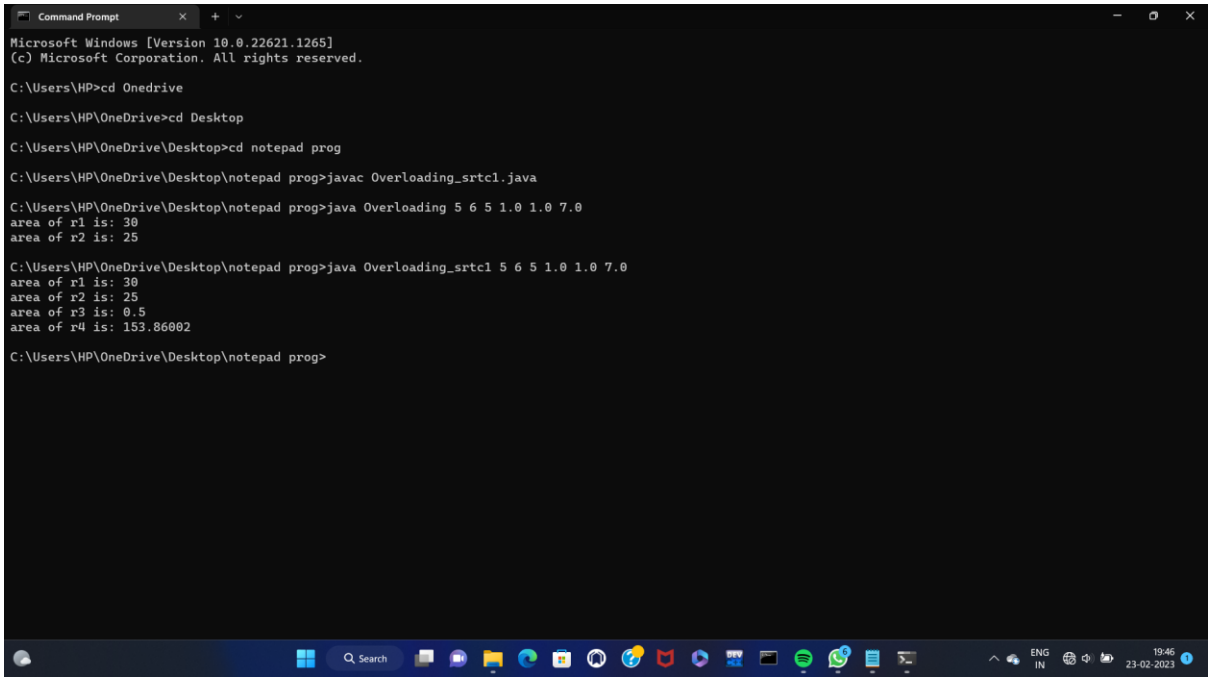
```
/*method overloading(rectangle,squre,triangle,circle)another way*/
class Shape
{
 int d1,d2;
 float d3,d4;
 Shape(int a,int b) //assuming rectangle
 {
   d1=a;
   d2=b;
 }
 Shape(int a)     //assuming square
 {
   d1=d2=a;
 }
 Shape(float a,float b)  //triangle
 {
   d3=a;
   d4=b;
 }
 Shape(float a)     //circle
 {
   d3=a;
 }
 int area()
 {
   return(d1*d2);
 }
 float area_t()
 {
```

```
    return(.5f*d3*d4);
  }
 float calcArea()
  {
    return(3.14f*d3*d3);
  }
}
class Overloading_srtc1
 {
  public static void main(String args[])
    {
      int i=Integer.parseInt(args[0]);
      int j=Integer.parseInt(args[1]);
      int k=Integer.parseInt(args[2]);
      float p=Float.parseFloat(args[3]);
      float q=Float.parseFloat(args[4]);
      float m=Float.parseFloat(args[5]);
      Shape r1=new Shape(i,j);
      Shape r2=new Shape(k);
      Shape r3=new Shape(p,q);
      Shape r4=new Shape(m);
      System.out.println("area of r1 is: "+r1.area());
      System.out.println("area of r2 is: "+r2.area());
      System.out.println("area of r3 is: "+r3.area_t());
      System.out.println("area of r4 is: "+r4.calcArea());
    }
}
```


Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.
C:\Users\HP>cd Onedrive
C:\Users\HP\OneDrive>cd Desktop
C:\Users\HP\OneDrive\Desktop>cd notepad prog
C:\Users\HP\OneDrive\Desktop\notepad prog>javac Overloading_srtc1.java
C:\Users\HP\OneDrive\Desktop\notepad prog>java Overloading 5 6 5 1.0 1.0 7.0
area of r1 is: 30
area of r2 is: 25
C:\Users\HP\OneDrive\Desktop\notepad prog>java Overloading_srtc1 5 6 5 1.0 1.0 7.0
area of r1 is: 30
area of r2 is: 25
area of r3 is: 0.5
area of r4 is: 153.86002
C:\Users\HP\OneDrive\Desktop\notepad prog>
Search
ENG
IN
19:46
23-02-2023