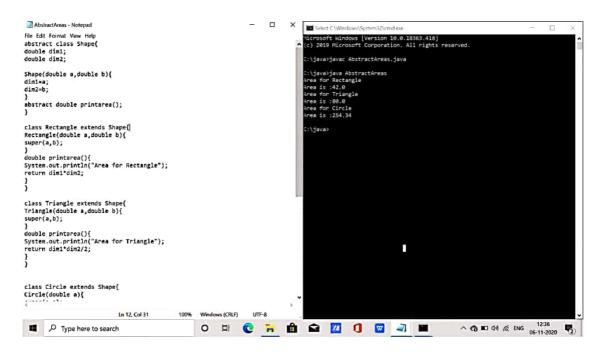
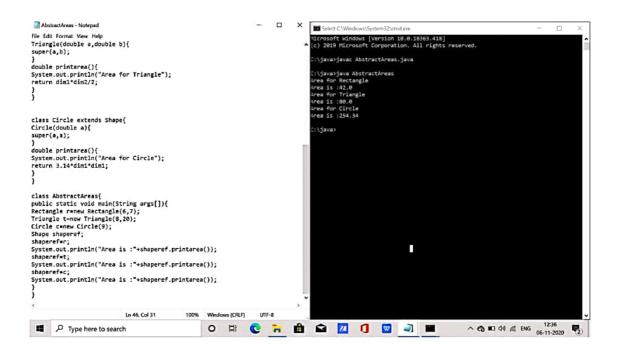
class Triangle extends Shape{

```
Triangle(double a, double b){
super(a,b);
}
double printarea(){
System.out.println("Area for Triangle");
return dim1*dim2/2;
}
}
class Circle extends Shape{
Circle(double a){
super(a,a);
}
double printarea(){
System.out.println("Area for Circle");
return 3.14*dim1*dim1;
}
}
class AbstractAreas{
public static void main(String args[]){
Rectangle r=new Rectangle(6,7);
Triangle t=new Triangle(8,20);
Circle c=new Circle(9);
```

```
Shape shaperef;
shaperef=r;
System.out.println("Area is :"+shaperef.printarea());
shaperef=t;
System.out.println("Area is :"+shaperef.printarea());
shaperef=c;
System.out.println("Area is :"+shaperef.printarea());
}
```

SCREENSHOTS OF PROGRAM AND OUTPUT:-





WRITTEN PROGRAM:-

Develop a Java program to wate an abstract class named shape that contains 2 integers and an empty method name printareal). Provide 3 classes named Rectangle. Triangle and Circle Such that each one of class extends the class shape. Each one of the classes contain only the method Print Arca() that prints the area of given shape. Program dotabledim1; double dim2; shape (double a, double b) } divi1 = a; beginn , "hartaley, her word as dim2 = b; abstract double ona printaria (); THE ABBREAK MAIS dans Rectangle externols shape 8/15 1 Rectangle (double a, double b) 5 super (a, b); double printaria() i system.out. printen (" Arua of ructangle!"); return dim1 * dim2;

```
class Triangle extends shape 1
Triangle (double a, double b) }
super (a,b);
double printaria()1
system. ou. printful "Area for Triangle"):
netwo dim 1 + dim 2/2;
 class cincle extends shape &
 cinacle (double a) {
                       table ding
 super (ga);
 double printaria()! doctor all staris
 system.ow.println(" Areafor circle");
  return 344 * dim1 * dim1;
 I comprehensive the second
 class Abstract Areas 1
 public static void main (string, args (7));
  Rectangle 7 = new Rectangle (6,7);
  Triangle &= new Triangle (8,20);
  cincle c = new Circle (9);
  shape shapenef;
  shape nef = v;
   System.out. println (" Area ?s." + shapere fareal),
   shape rel = t;
   system.ous. println! Area is " + shaperet. oute 1);
    System out printen!" Area is "+ shape xy! anoi!)
```

