```
OOJ LAB PROGRAM 4
WEEK 8
4.
abstract class Shape
  int side1,side2;
  double area;
  abstract void printArea();
class Rectangle extends Shape
  Rectangle(int I, int b)
     side1=I;
     side2=b;
  void printArea()
     area=side1*side2;
    System.out.println("The area of the Rectagle is: "+area);
}
class Triangle extends Shape
  Triangle(int h, int b)
  {
     side1=h;
     side2=b;
  }
  void printArea()
     area=0.5*side1*side2;
    System.out.println("The Area of the triangle is: "+area);
  }
}
class Circle extends Shape
  Circle(int r)
     side1=r;
  }
```

```
void printArea()
          area=3.14*side1*side1;
          System.out.println("The Area of the Circle is: "+area);
}
class ShapeMain
     public static void main(String args[])
     {
          Rectangle rect=new Rectangle(5,6);
          rect.printArea();
          Triangle tri=new Triangle(5, 8);
          tri.printArea();
          Circle cir=new Circle(10);
          cir.printArea();
     }
OUTPUT:-
  :\Users\mithilraj>cd
  :\Users\mithilraj\Desktop\java>Shape java
shape' is not recognized as an internal or external command,
perable program or batch file.
   \Users\mithilraj\Usektop\java>java Shape
ror: Main method not found in class Shape, please define the main method as:
public static void main(String[] args)
a JavaFX application class must extend javafx.application.Application
  :\Users\mithilraj\Desktop\java>java ShapeMain
ne area of the Rectagle is: 30.0
ne Area of the triangle is: 20.0
ne Area of the Circle is: 314.0
  :\Users\mithilrai\Desktop\iava>
```

O H 📀 🧎 🔷 🕒 🖼

へ 🖎 🗊 🧖 切) ENG 20:49 🖣

EXECUTION:-

Type here to search

```
- a ×
C:\Users\mithilraj\Desktop\java\lab8.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🔡 lab8.java 🛚
    int side1,side2;
double area;
abstract void printArea();
Windows (CR LF) UTF-8
Java source file
                                                                              length: 1.104 lines: 62
                                                                                                 Ln:28 Col:6 Sel:010
                                                                                                                          ^ ♠ ■ (@ Φ)) ENG 20:55 09-11-2020 ■
                                      O # O # © W W
 Type here to search
C:\Users\mithilraj\Desktop\java\lab8.java - Notepad++
                                                                                                                                         - a ×
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
🔚 lab8.java 🗵
length: 1,104 lines: 62
                                                                                                 Ln:28 Col:6 Sel:0|0
                                                                                                                           Windows (CR LF) UTF-8
ava source file
                                                                                                                                           20:55
                                       O # O # 💿 🙀 🖿
 Type here to search
                                                                                                                          ^ ♠ ■ ( dv) ENG 20:55 09-11-2020
```