WEEK - 8

#1)

```
import java.io.*;
import java.util.*;
abstract class Shape
{
  double x, y;
  Shape (double a, double b)
  {
    x = a
    y = b;
  }
  abstract void printArea();
}
class Rectangle extends Shape
{
  Rectangle (double a, double b)
  {
  super (a, b)
  }
  void printArea()
  {
  System.out.println ("Area is: " + (x*y));
  }
}
class Triangle extends Shape
{
```

```
Triangle (double a, double b)
{
  super (a,b);
  }
  void printArea()
  {
    System.out.println ("Area is : " + (0.5 * x * y));
    }
}
class Circle extends Shape
{
  Circle (double a, double b)
  {
   super (a,b);
  }
  void PrintArea ()
  {
  System.out.println ("Area is :  " + (3.14 * x * y));
    }
}
class Abstract_test
{
  public static void main (String args [])
  {
   Rectangle r1 = new Rectangle (10, 20);
```

```
Triangle t1 = new Triangle (2,2);
Circle c1 = new Circle (3,3);
r1.printArea()
t1.printArea()
c1.printArea()
}
}.
```