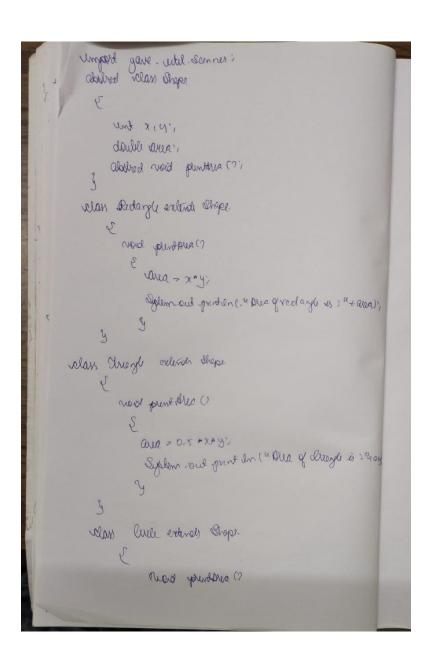
Q) Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extend the class Shape. Each one of the classes contain only the method printArea() that prints the area of the given shape.

CODE:



```
Qua=3.14*x*x;
           System out prenter (" Acres of cure us "+ abot,
  3
clan Area
     PS v. m (Blung ays ())
           Redargle Sec > new Redergle 12);
           Deargle & - New Druggle ();
           Circle C > new Circle (5")
           und ch;
          Scenner & = new Scenner Eyolem in;
         S.O. P L'Menu In 1. Redargh Lo. Triengh 3 n.3. aud
                  In 4. Enut 100),
          Ch = s. new of or;
          Dwilch (ch)
       Mare 1:5. 0.0 ( " Ende length & breadth "1);
              Sec 1 = S. nord and (i)
              ore C. 425. wodent ();
               NU. Pint Aug (7)
      Case 2: 5.00 ("Endu breedth E hught
              Ex 28 midlider 4-425 midlider
                E print sue cr'i
       COSI 3 . S. O. P ("Enly redus")
                 C.x - s need Poter, c. prontaceni
           default: S. . O. P( " graded unpar "):
```

OUTPUT:

```
C:\Users\sanja\OneDrive\Desktop\1bm21cs062>javac swm.java

C:\Users\sanja\OneDrive\Desktop\1bm21cs062>java Area
menu
1.rectangle
2.triangle
3.circle
4.exit

1
Enter length:
3
Enter breadth:
4
Area of rectangle is: 12.0
Enter height:
30
Enter breadth:
20
Area of triangle is: 300.0
Enter radius:
100
Area of circle is: 31400.0
invalid input

C:\Users\sanja\OneDrive\Desktop\1bm21cs062>
```