LAB program - 4

```
import java. wil. * !
 import lawa. lang. Ham, *,
abitract class shape 2
     public int a;
      public intb',
      abitiant public world printling();
      Scarmers = new Scarmer(system. In);
    class rectangle exceeds shape &
                public wid printarally
         System.out.print ("Enter length and breadth of
                                                   ouchangle; ");
        float a= S. next Float ();
        float b= 5. nextfloat();
        float area = a*b',
      System. out. println ("Aua = "+ aua+ "sq. unit");
     4
   4
     class hiangle extends thape &
        public wid prin+Aua()4
      Syrum. out. print ("Enter three rides of hiangle:");
       float a = S. next Float 1);
        float b: s. neutfloat():
```

```
fluat c: s. nort fluat ();
     float d = (a+b+c)/2;
   double ava = Math. sqrt (d*(d-a)*(d-b)*(d-c));
   Syrum. out. printin (" Aua="+arra+"sq. with");
4
4
 Clay circle extends shape &
   public word print Aual 15
         System. out. pûntl" ones radius of circle: ");
      float a=s. nesu Float ();
      flow aua = 22/7* a*4.
   System. out. pintin ("Aua="+ava+" sq. unit");
· class up shapedemo &
          public staric void main (sning augst 1);
               thape it - new rectange 11;
          shape &= new kiange ():
         thape c = new circle ();
         ber (in+i=0; 1<100; 1++) {
  System. out. privata ("\n1) Triange \n2) Rectange (n3) will (n)
 System. out. printin ("Enter your choice:");
 Scanner s= newscanner(sytem.in);
```

```
int th = s. nextlntl);

Switch(cn){

(anl: f. pint Anal);

buak;

(ane2: N. pint Anal);

buak;

(ane3: c. pint Anal);

break;

chefant:

Syrum. out, println("[malid choice").

3
```