```
VARRA CHARAN
                       LAB-PROGRAM-4
                                            (BM19CSI78
 import ; ava · util · scannes;
  abstract class shape
  intaj
  int b;
shape (int as int b)
 I this a = a;
  this . b = b;
shape (inta)
{ this a = a;
shape()
f this - a = 0;
 this . 6 =0,
Void print Area ()
class triangle extends shape
 f briangle (intarintb)
    Esuper (a, b);}
```

```
Noid Print Area ()
System out println (" The area of the trian
                   is = "+(a*61);
 class circle extends shape
 f circle (inta)
 ¿ supercas; je
 void print Area ()
I system jout printly ("the area of the circle is
  = " + (3.14 ta); ) = 10 All used as
Class shapes for
 Public static void main (string args 1)
 Sscanner scan = new scanner (system in);
  ink ch, a, b;
  while (true),
 System OUE prinkin ("Enter IFOR TRIANGIE");
 SYSTEM OUT Printly ("ENTER ZFOR RECTANGIE");
SYSTEM GUE Print ("ENTER 3 FOR CIRCLE");
SYS tem GUE-Println ("ENTER 4 FOR EXIT");
```

```
Ch = Scan . nextInt();
  switch (ch)
frase 1: system out print ("Enter the base and
       height of triangle "]:
       a = scan hextint();
       b = scan hext (ht ();
       triangle t = hew triangle (a, b);
          t. print Avea ();
           break;
case 2 : system out printly ("entex the length
           and breadth of rectangle"1;
        a = scan hextint();
        h = scan hextint();
        rectangle r = new rectangle (a, b);
           r. print Area ();
           break;
 Case 3: system out printlh ("entex theradius
                          of the circle ");
             a = scan next int ();
              Circle C = hew circle (a);
              e · print Area ();
             break;
```

```
case 4: scan-close();
break;
default isystem rout-printly ("invalid input");
}
```