**METHOD OVERLOADING**

**SOURCE CODE:**

import java.util.\*;

class area

{

int x;

int y;

double s;

void ar(int x)

{

System.out.println("The area of square is "+(x\*x));

}

void ar(double s)

{

System.out.println("The area of circle is "+(3.14\*s\*s));

}

void ar(int x,int y)

{

System.out.println("The area of rectangle is "+(x\*y));

}

}

class metovr

{

public static void main(String args[])

{

int choice;

Scanner sc=new Scanner(System.in);

area a=new area();

do

{

System.out.println("Enter choice \n 1: Area of square \n 2: Area od circle \n 3: Area of rectangle \n 4: Exit ");

choice =sc.nextInt();

switch(choice)

{

case 1: System.out.println("Enter side of square");

a.ar(sc.nextInt());

break;

case 2: System.out.println("Enter radius of circle");

a.ar(sc.nextFloat());

break;

case 3: System.out.println("Enter sides of rectangle");

a.ar(sc.nextInt(),sc.nextInt());

break;

default:System.out.println("wrong choice");

}

}while(choice!=4);

}

}

**OUTPUT:**

