## Experiment 5

Code:

import java.util.\*;

class Shape

{

    double volume;

    Shape(double side)

    {

        volume = side\*side\*side;

    }

    Shape(double length, double breadth, double height)

    {

        volume = length\*breadth\*height;

    }

}

class Q5

{

    public static void main(String args[])

    {

        Shape cube = new Shape(10.2);

        System.out.println("The volume of the cube is " + cube.volume);

        Shape cuboid = new Shape(10, 20, 30);

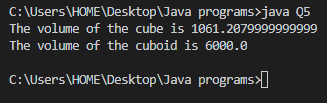
        System.out.println("The volume of the cuboid is " + cuboid.volume);

    }

}

/\*Remeber to keep data type of volume as double\*/

Output:



## Experiment 6

Code:

import java.util.\*;

class Area

{

//System.out.println("...");

double area(double radius)

{

/\*for circle\*/

return 3.1415\*radius\*radius;

}

double area(double length, double breadth)

{

return length\*breadth;

}

int area(int side)

{

return side\*side;

}

}

class Q6

{

public static void main(String args[])

{

Area shape = new Area();

System.out.printf("The area of circle is %.5f\n", shape.area(5.0));

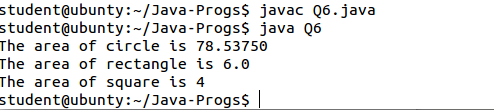
System.out.println("The area of rectangle is " + shape.area(3, 2));

System.out.println("The area of square is " + shape.area(2));

}

}

Output:



# Experiment 7

Code:

class Test

{

int a, b;

Test(int a, int b)

{

this.a = a;

this.b = b;

}

public static Test func(Test o)

{

o.a \*= 2;

o.b += 4;

return o;

}

public static void main(String args[])

{

Test ob = new Test(2, 3);

Test ob1 = new Test(0, 0);

System.out.println("Object's attributes before calling function: ob. a = " + ob.a + " and ob.b = " + ob.b);

ob1 = ob.func(ob);

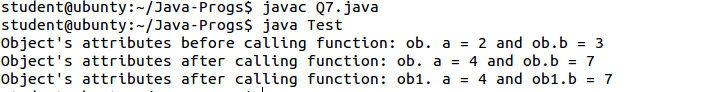
System.out.println("Object's attributes after calling function: ob. a = " + ob.a + " and ob.b = " + ob.b);

System.out.println("Object's attributes after calling function: ob1. a = " + ob1.a + " and ob1.b = " + ob1.b);

}

}

Output:



# Experiment 8

Code:

./MyPackage/Array.java

package MyPackage;

public class Array{

//A utility function for printing any array

public void printArray(int arr[]) {

for(int i = 0; i < arr.length; i++){

System.out.print(arr[i] + " ");

}

System.out.println();

}

public void reverseArray(int arr[]) {

int len = arr.length;

for(int i = 0; i < len/2; i++) {

int temp = arr[i];

arr[i] = arr[len - i - 1];

arr[len - i - 1] = temp;

}

}

}

./Q8.java

import MyPackage.\*;

class Q8{

public static void main(String args[]){

int arr[] = {1, 2, 3, 4, 5, 6, 7, 8};

System.out.println("The array elements are");

Array ob = new Array();

ob.printArray(arr);

ob.reverseArray(arr);

System.out.println("The reversed array is ");

ob.printArray(arr);

}

}

Output:

