POLYMORPHISM

1. Write a java program for adding two or more numbers

Class name:adder

Method name:addition()

Program:

```
class adder{
void addition(int a , int b){
System.out.println(a+b);
void addition(double a , double b){
System.out.println(a+b);
void addition(int a , int b,int c){
System.out.println(a+b+c);
void addition(int a , int b,int c ,int d){
System.out.println(a+b+c+d);
void addition(double a, double b, double c, double d){
System.out.println(a+b+c+d);
class add{
public static void main(String args[]){
adder obj= new adder();
obj.addition(10,20);
obj.addition(1.1,4.2);
obj.addition(23,56,4);
obj.addition(78,9,47,6);
```

```
obj.addition(1.2,2.3,3.4,4.5);
}}
Output:
30
5.300000000000001
83
140
11.4
```

2. Write a java program for finding the area of the Shapes such as Circle, Square, Rectangle.

Class name:shape

Method name:area

PROGRAM:

```
class shape{
  void area(double a) {
  area=Math.PI*a*a;
  System.out.println(area);
  }
  void area(int a) {
  area=a*a;
  System.out.println(area);
  }
  void area(int a, int b) {
  area=0.5*a*b;
  System.out.println(area);
  }
}
class areaof{
```

```
public static void main(String args[]){
shape obj= new shape();
obj.area(2.1);
obj.area(8);
obj.area(7,8);
}
OUTPUT:
13.854423602330987
64
28.0
```