**DYNAMIC METHOD DISPATCH**

**SOURCE CODE:**

class shape

{

float dim1,dim2;

shape(float a,float b)

{

dim1=a;

dim2=b;

}

void area()

{

System.out.println("No shape is defined");

}

}

class rectangle extends shape

{

rectangle(float a, float b)

{

super(a,b);

}

void area()

{

System.out.println("The area of rectangle is "+(dim1\*dim2));

}

}

class triangle extends shape

{

triangle(float a,float b)

{

super(a,b);

}

void area()

{

System.out.println("The area of triangle is "+(dim1\*dim2\*0.5));

}

}

class dynamic

{

public static void main(String args[])

{

shape s;

rectangle r1=new rectangle(2,4);

s=r1;

s.area();

triangle t1=new triangle(2,4);

s=t1;

s.area();

}

}

**OUTPUT:**

