```
class typecast{
  public static void main(String[] args) {
    int x=07;
    System.out.println("int is:"+x);
    float y=x;
    System.out.println("float is:"+y);
  }
}
output:
int is:7
float is:7.0
```

```
2)Classes(Basic example)
a)
class Box{
   this.breadth= breadth;
    Box box1= new Box (15, 20, 10);
    System.out.println("volume is"+volume);
output:
volume is3000.0
b)
class Box {
```

```
double depth;
class BoxDemo {
  public static void main(String[] args) {
       Box mybox = new Box();
      mybox.height = 20;
      mybox.depth = 15;
      vol = mybox.width * mybox.height * mybox.depth;
output:
Volume is: 3000.0
C)
class Box1 {
      mybox.setNewWidth(25);
  int depth;
  Box1(int height, int width, int depth) {
      this.depth = depth;
```

```
void setNewWidth(int width) {
    this.width = width;
}
int vol() {
    return height * width * depth;
}
output:
initial volume is3000
final volume is3750
```

```
3)Quadratic equation
import java.util.Scanner;
class quad {
  double a;
  double b;
  public static void main(String[] args){
       Scanner sc= new Scanner(System.in);
      System.out.println("enter c:10");
      double c=sc.nextDouble();
      double der=(b*b)-(4*a*c);
       if (der<0) {
          double r1=(-b-Math.sqrt(der))/(2*a);
          double r2=(-b+Math.sqrt(der))/(2*a);
```

```
System.out.println("r1 is"+r1);
          System.out.println("r2 is"+r2);
1st output
enter a:
10
enter b:
20
enter c:10
30
no real roots
2nd output
enter a:
enter b:
-3
enter c:
r1 is0.3819660112501051
r2 is2.618033988749895
3rd output
enter a:
10
enter b:
20
enter c:1
10
r3 is-1.0
```