```
1)Demo Program: -
public class welcome {
  public static void main(String[] args) {
      // TODO Auto-generated method stub
      System.out.println("Hello, World!");
  }
}
2)
      int a;
      String b;
      a=10;
      b="bhavna";
      System.out.println(a);
      System.out.println(b);
      System.out.println("Hello, World!");
      int myNum = 5;
3)
      float myFloatNum = 5.99f;
      char myLetter = 'D';
      boolean myBool = true;
      String b;
      b="bhavna";
```

```
System.out.println(b);
      System.out.println(myNum);
      System.out.println(myFloatNum);
      System.out.println(myLetter);
      System.out.println(myBool);
4) Type casting
  int num = 10;
  System.out.println("The integer value: " + num);
  double data = num;
  System.out.println("The double value: " + data);
  double a = 10.99;
  System.out.println("The double value: + a);
  int b = (int)a;
  System.out.println("The integer value: " + b);
5) Welcome. java
  public class welcome {
      public static void main(String[] args) {
           // TODO Auto-generated method stub
         int num = 10;
  System.out.println("The integer value: " + num);
        double data = num;
```

```
System.out.println("The double value: " + data);
        double a = 10.99;
        System.out.println("The double value: + a);
       int b = (int)a;
       System.out.println("The integer value: " + b);
         Lamp led = new Lamp();
         Lamp halogen = new Lamp();
         led.turnOn();
         halogen.turnOff();
      }
  }
  Lamp.java
  class Lamp {
   boolean isOn;
   void turnOn() {
    isOn = true;
    System.out.println("Light on? " + isOn);
   void turnOff() {
    isOn = false;
    System.out.println("Light on? " + isOn);
6) Constructors:-
  Lamp.java
```

```
class Lamp {
 boolean isOn;
 Lamp(boolean i){
      isOn = i;
 void turnOn() {
  isOn = true;
  System.out.println("Light on? " + isOn);
 void turnOff() {
  isOn = false;
  System.out.println("Light on? " + isOn);
Welcome.java
public class welcome {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
      int num = 10;
System.out.println("The integer value: " + num);
       double data = num;
System.out.println("The double value: " + data);
       double a = 10.99;
```

```
System.out.println("The double value: " + a);
    int b = (int)a;
System.out.println("The integer value: " + b);
Lamp led = new Lamp(true);
System.out.println("from Led"+led.isOn);
Lamp halogen = new Lamp(false);
System.out.println("from halogen"+halogen.isOn);
    led.turnOn();
    halogen.turnOff();
}
```