Class and object

```
class Account {
  private double balance = 500.00; // member data
  public double getBalance(int x) { // member method
    // logic here
    return balance;
  }
  public static void main(String[] args) {
    Account accnt = new Account(); // object creation
    double value = accnt.getBalance(123456);
    System.out.println("The balance is: " + value);
  }
}
```

Execution Result

Output:

The balance is: 500.0

Data types

```
class ScopeOfVariables {
 int i = 34; // instance variable
 static int z; // class variable
 static {
  z = 10;
  System.out.println("inside static block: " + z);
 }
 void test() {
  int k = 200; // local variable
  System.out.println("local variable: " + (k + i));
 }
 public static void main(String[] args) {
  ScopeOfVariables obj = new ScopeOfVariables();
  obj.test();
  System.out.println(obj.i);
}
```

There is an error

Operators

```
class Account {
 public static void main(String[] args) {
  double balance = 600;
  System.out.println("Amount to withdraw");
  double amount = 1500;
  if(amount < 0 || amount > balance) {
   System.out.println("Withdrawal has failed");
  }
  else {
   balance -= amount;
   System.out.println("Withdrawal has succeeded");
  }
 }
 Execution Result
 Output:
   Amount to withdraw
   Withdrawal has failed
class Account {
 public static void main(String[] args) {
  double balance = 2000;
  System.out.println("Amount to withdraw");
  double amount = 500, limit = 10000, minbal = 500;
  if(amount <= limit && (balance - amount) > minbal) {
   balance -= amount;
   System.out.println("Withdrawal has succeeded");
 }
```

Execution Result

Output:

}

Amount to withdraw Withdrawal has succeeded

Type casting

```
class Calculation{
  public static void main(String[] args){
     double d = 234.04;
     long I = (long)d; //explicit type casting
     int i = (int)l; //explicit type casting
     System.out.println("double value " + d);
     System.out.println("long value " + I);
     System.out.println("int value " + i);
  }
}
 Execution Result
 Output:
    double value 234.04
    long value 234
    int value 234
class Calculation{
  public static void main (String[] args) {
     int i = 300;
     long I = i; //no explicit type casting
     float f = I; //no explicit type casting
     System.out.println("int value " + i);
     System.out.println("long value " + I);
     System.out.println("float value " + f);
```

Execution Result

Output:

int value 300 long value 300 float value 300.0