```
1 class Account{
        public static void main(String[] args){
 2
 3
            double balance = 600;
            System.out.println("Amount to withdraw");
 4
            double amount = 500;
 5
 6
 7
            if (amount <= 0 || amount > balance){
               System.out.println("Withdrawal has failed");
 9
            }else{
10
                balance-=amount;
                System.out.println("Withdrawal has succeeded");
11
12
13
14 }
```

Output:

Amount to withdraw
Withdrawal has succeeded

```
class Account{
   public static void main(String[] args){
      double balance = 600;
      System.out.println("Amount to withdraw");
      double amount = 500;
      if(amount<=0){
            System.out.println("Withdrawal has failed as the amount is negative");
      }
      else if(amount>balance){
            System.out.println("Withdrawal has failed as the balance is low");
      }
      else{
            balance-=amount;
            System.out.println("Withdrawal has succeeded");
      }
}
```

Execution Result

Output:

Amount to withdraw
Withdrawal has succeeded

Output:

Display operation

```
import java.util.Scanner;
class Account [{
  public static void main(String[] args) {
    double balance = 0;
    double minbal = 500;
    double depositAmt = 0;
    //Scanner sc = new Scanner(System.in); uncomment when working in eclipse
    do {
      System.out.println("$100 have been added to the account");
      depositAmt +=100;
                                            // harcode different depositAmt values
      //depositAmt = sc.nextInt();
                                            uncomment when working in eclipse
    } while(depositAmt < minbal);</pre>
    balance = depositAmt;
    System.out.println("Transaction Complete");
}
```

Execution Result

Output:

\$100 have been added to the account Transaction Complete

```
import java.util.Scanner;
class Account [{
  public static void main(String[] args) {
   double balance = 0;
   double minbal = 500;
   double depositAmt = 0;
    //Scanner sc = new Scanner(System.in);
                                                // uncomment when working in eclipse
   while(depositAmt < minbal) {</pre>
     System.out.println("$100 have been added to account");
     //depositAmt = sc.nextInt();
                                                // harcode different depositAmt values
                                                // uncomment when working in eclipse
     depositAmt +=100;
    balance = depositAmt;
    System.out.println("Transaction Complete");
}
```

Output:

\$100 have been added to account Transaction Complete

```
class Account {{
   public static void main(String[] args) {
      double balance = 6000, rateOfInterest = 0.10, interest = 0;
      double withdrawal = 500, deposit = 600;
      for(int i = 1; i <= 12; ++i) {
        balance += deposit;
        balance -= deposit;
        interest = balance * rateOfInterest;
        balance += interest;
        System.out.println("The interest for the month " + i + " is " + interest);
      }
      System.out.println("The balance at the end of the year is " + balance);
    }
}</pre>
```

Output:

The interest for the month 1 is 600.0

The interest for the month 2 is 660.0

The interest for the month 3 is 726.0

The interest for the month 4 is 798.6

The interest for the month 5 is 878.46

The interest for the month 6 is 966.3060000000002

The interest for the month 7 is 1062.9366000000002

The interest for the month 8 is 1169.2302600000003

The interest for the month 9 is 1286.1532860000004

The interest for the month 10 is 1414.7686146000005

The interest for the month 11 is 1556.2454760600006

The interest for the month 12 is 1711.8700236660006

The balance at the end of the year is 18830.570260326007

```
1
    class Bank [{
       public static void main(String[] args) {
 2
 3
         int[] phone = new int[3]; // primitive type array
 4
         phone[0] = 7120686;
 5
         phone[1] = 7120687;
                                  // inserting element in an array
 6
         phone[2] = 7120684;
 7
        int count = 1;
         for(int i = 0; i < phone.length; ++i) { // traversing an array</pre>
 8
           System.out.println("phone number " + count + ": " + phone[i]);
 9
10
           ++count;
        }
11
12
13 }
```

Output:

phone number 1: 7120686 phone number 2: 7120687 phone number 3: 7120684

Execution Result

Output:

the customer name is...Anil the customer name is...Ajay

Output:

The interest for the month 1 is 610.0

The interest for the month 2 is 681.0

The interest for the month 3 is 759.1

The interest for the month 4 is 845.0100000000001

The interest for the month 5 is 939.5110000000001

The interest for the month 6 is 1043.4621000000002

The interest for the month 7 is 1157.8083100000001

The interest for the month 8 is 1283.5891410000004

The interest for the month 9 is 1421.9480551000004

The interest for the month 10 is 1574.1428606100003

The interest for the month 11 is 1741.5571466710005

The interest for the month 12 is 1925.7128613381003

Output:

bank Name: IBank

Area of bank: Gandhi Nagar

Phone number of bank: 9876543210

bank Name: IBank

Area of bank: Jaydev Nagar

Phone number of bank: 8876543219

```
class Bank {
    private String bankName; //instance variable
    private String area;
    private String phoneNumber;

    Bank(String bankName, String area, String phoneNumber) { // Parameterized constructor

        this.bankName = bankName; //this keyword is used to assign
        this.area = area; //the value for instance variables
        this.phoneNumber = phoneNumber;

}

void displayBankDetails(){
    System.out.println("bank Name: " + bankName);
    System.out.println("Area of bank: " + area);
    System.out.println("Phone number of bank: " + phoneNumber);

}

public static void main(String[] args){
    Bank bank = new Bank("IBank", "Jaydev Nagar", "8876543210"); //call default constructor
    bank.displayBankDetails();
}

}
```

Output:

bank Name: IBank

Area of bank: Jaydev Nagar

Phone number of bank: 8876543210

```
class Loan {
  int tenure;
  double principal;
  float interestRate;
  String accountNumber;
  public double calculateEMI(){
      double simpleInterest = (principal*interestRate*tenure)/100;
      return (simpleInterest+principal)/tenure;
  }
}
class HomeLoan extends Loan {
  HomeLoan() {
    tenure = 5; //reusing super class member variables
    principal = 20000;
    interestRate = 8.5f;
    accountNumber = "Acc12345";
}

public static void main(String[] args) {
    HomeLoan hloan = new HomeLoan();
    double amount = hloan.calculateEMI(); // sub class Object
    // invoking super class method
    System.out.println("emi per year..." + amount);
}
```

Runtime Exception

Error: Could not find or load main class member

```
class Loan{
    private float interest;

Loan(){
        interest = 8.5f;
    }

    //calculateEMI overloaded methods
    public double calculateEMI(int tenure, double principal){
        double simpleInterest = (principal * interest * tenure) / 100;
        return (simpleInterest+principal)/tenure;
    }

    public double calculateEMI(double principal, int tenure){
        double simpleInterest = (principal * interest * tenure) / 100;
        return (simpleInterest+principal)/tenure;
    }

    public double calculateEMI(int tenure, double principal, float interest){
        double simpleInterest = (principal * interest * tenure) / 100;
        return (simpleInterest+principal)/tenure;
    }

    public static void main(String[] args){
        Loan loan = new Loan();
        double result = loan.calculateEMI(20000d, 5); //d means double
        double value = loan.calculateEMI(5, 20000d);
        double value = loan.calculateEMI(5, 20000d, 9.5f); // f means float

        System.out.println("EMI per year is..." + result);
        System.out.println("EMI per year is..." + value);
        System.out.println("EMI per year is..." + value);
        System.out.println("EMI per year is..." + value);
    }
}
```

Output:

EMI per year is...5700.0 EMI per year is...5700.0

EMI per year is...5900.0