TAMOJIT DAS A/7/C1

ASSIGNMENT 9

Q1 & Q2

Accounts.java

```
package Banking;


public abstract class Accounts{
  public int cust_id;
  public String cust_name;
  public double balance;
  public Accounts(){
    this.cust_id=0;
    this.cust_name="";
    this.balance=0.0;
  }
  public Accounts(int a,String b,double c){
    this.cust_id=a;
    this.cust_name=b;
    this.balance=c;
  }
  public abstract void Display();
}
```

Savings.java

```
package Banking.Savings;
```

```
import Banking.*;

public class Savings extends Accounts{
  double dwl;
  public Savings(int id,String name,double balance){
    super(id,name,balance);
    this.dwl=super.balance*0.5;
  }
  public Savings(int id,String name){
    super(id,name,1000.0);
    this.dwl=super.balance*0.5;
  }
  public void Display(){
    String s="ID: "+this.cust_id+"\tName: "+this.cust_name+"\tBalance: "+this.balance;
    s=s+"\tLimit: "+this.dwl;
    System.out.println(s);
  }
  public void Withdraw(double amt){
    if(amt<=this.dwl && amt<=this.balance){
      this.balance-=amt;
      System.out.println("Succesful withdraw "+amt);
    }else{
      System.out.println("\nLimit Exceeded\n");
    }
  }
  public void Deposit(double amt){
    this.balance+=amt;
    System.out.println("Succesful deposited ${amt}");
```

```
  }
}
```

Current.java

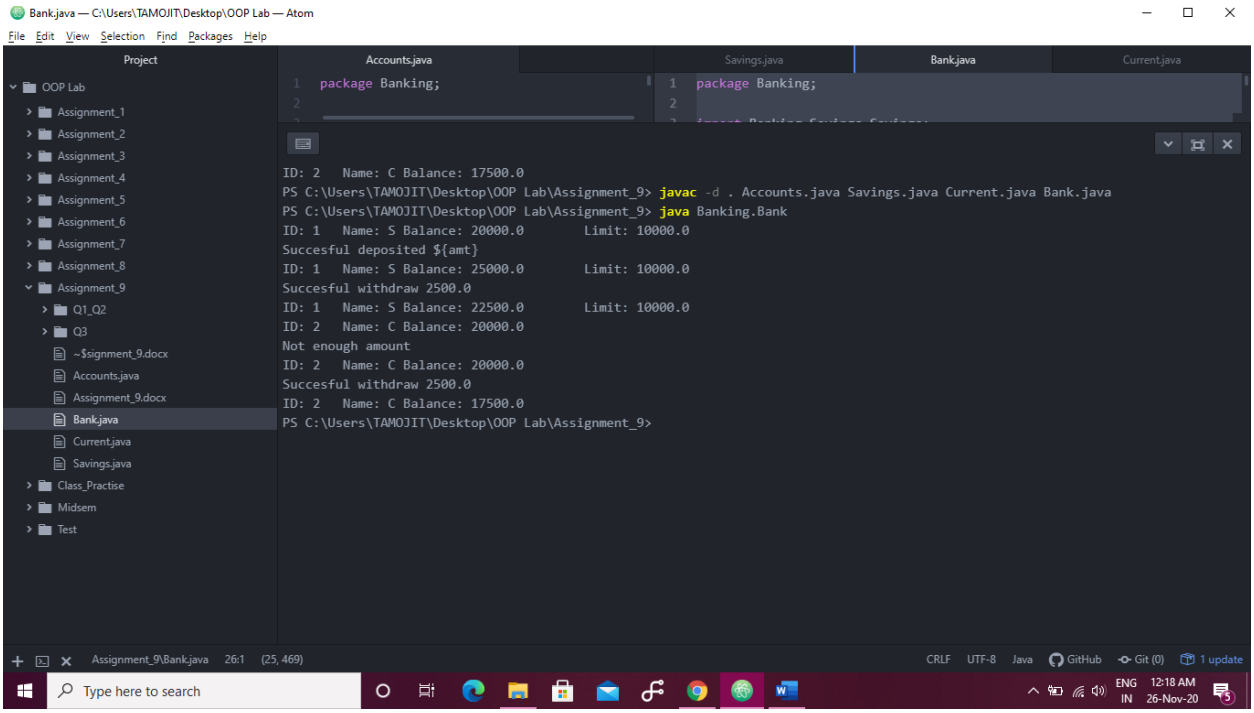
```
package Banking.Current;

import Banking.*;

public class Current extends Accounts{
  public Current(int id,String name,double balance){
    super(id,name,balance);
  }
  public void Display(){
    String s="ID: "+this.cust_id+"\tName: "+this.cust_name+"\tBalance: "+this.balance;
    System.out.println(s);
  }
  public void Withdraw(double amt){
    if(amt<=this.balance){
      this.balance-=amt;
      System.out.println("Succesful withdraw "+amt);
    }else{
      System.out.println("\nNot enough balance\n");
    }
  }
  public void Deposit(double amt){
    if(amt>10000){
      this.balance+=amt;
      System.out.println("Succesful deposited ${amt}");
    }else{
```

```
      System.out.println("Not enough amount");
    }

  }
}
```

Bank.java

```
package Banking;

import Banking.Savings.Savings;
import Banking.Current.Current;

class Bank{
    public static void main(String[] args) {
      Savings S=new Savings(1,"S",20000);
      Current C=new Current(2,"C",20000);

      S.Display();
      S.Deposit(5000);
      S.Display();
      S.Withdraw(2500);
      S.Display();

      C.Display();
      C.Deposit(5000);
      C.Display();
      C.Withdraw(2500);
      C.Display();
```

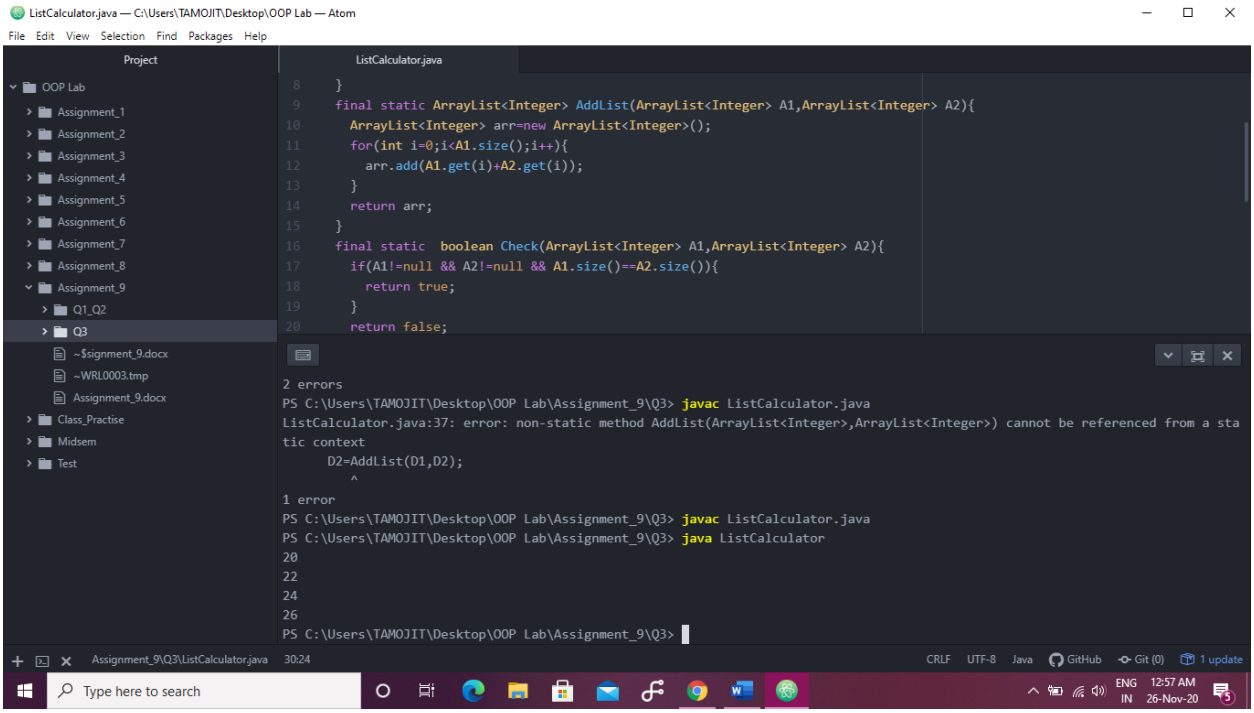
```
    }
}
```



Q3.

```
import java.util.ArrayList;


class ListCalculator{
  final static void Display(ArrayList<Integer> A1){
    for(int d:A1){
      System.out.println(d);
    }
  }
  final static ArrayList<Integer> AddList(ArrayList<Integer> A1,ArrayList<Integer> A2){
    ArrayList<Integer> arr=new ArrayList<Integer>();
```

```
  for(int i=0;i<A1.size();i++){
    arr.add(A1.get(i)+A2.get(i));
  }
  return arr;
 }
 final static  boolean Check(ArrayList<Integer> A1,ArrayList<Integer> A2){
  if(A1!=null && A2!=null && A1.size()==A2.size()){
    return true;
  }
  return false;
 }
 public static void main(String[] args) {
  ArrayList<Integer> D1=new ArrayList<Integer>();
  ArrayList<Integer> D2=new ArrayList<Integer>();

  D1.add(10);D1.add(11);D1.add(12);D1.add(13);
  D2.add(10);D2.add(11);D2.add(12);D2.add(13);

  if(Check(D1,D2)){
    D2=AddList(D1,D2);
  }

  Display(D2);

 }
}
```


ListCalculator.java — C:\Users\TAMOJIT\Desktop\OOP Lab — Atom
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Project
OOP Lab
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Assignment_2
Assignment_3
Assignment_4
Assignment_5
Assignment_6
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ListCalculator.java
}
final static ArrayList<Integer> AddList(ArrayList<Integer> A1,ArrayList<Integer> A2){
ArrayList<Integer> arr=new ArrayList<Integer>();
for(int i=0;i<A1.size();i++){
arr.add(A1.get(i)+A2.get(i));
}
return arr;
}
final static boolean Check(ArrayList<Integer> A1,ArrayList<Integer> A2){
if(A1!=null && A2!=null && A1.size()==A2.size()){
return true;
}
return false;
2 errors
PS C:\Users\TAMOJIT\Desktop\OOP Lab\Assignment_9\Q3> javac ListCalculator.java
ListCalculator.java:37: error: non-static method AddList(ArrayList<Integer>,ArrayList<Integer>) cannot be referenced from a static context
D2=AddList(D1,D2);
^
1 error
PS C:\Users\TAMOJIT\Desktop\OOP Lab\Assignment_9\Q3> javac ListCalculator.java
PS C:\Users\TAMOJIT\Desktop\OOP Lab\Assignment_9\Q3> java ListCalculator
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