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Subject: Object Oriented Programming Lab

Practical-1

- **Problem Definition:**

Write a program to deposit and withdraw the amount from the account. Write the deposit and withdraw methods in the account class. Customer is having with name, account number and amount. Consider all the validations required for depositing and withdrawal of amount. Print the details of the account holder.

- **Program:**

```
class Account{
    String AcName;
    double Amount;
    int AccNumber;
    public Account(int accNumber, String HoldersName, double amount){    //constructor
        AcName= HoldersName;
        AccNumber=accNumber;
        Amount= amount;
    }
    public void Withdraw(double withdrawAmount){                        //method
        if(Amount - withdrawAmount < 0){
            System.out.println("Rs." + withdrawAmount + " cannot be withdrawn from your
account.\n");
        }
        else{
            Amount=Amount-withdrawAmount;
            System.out.println("Rs." + withdrawAmount + " is debited from your account.\n");
        }
    }
    public void Deposit(double depoAmount){
        if(depoAmount>0){                                              //method
            Amount=Amount+depoAmount;
            System.out.println("Rs." + depoAmount+ " is credited to your account.\n");
        }else{
```

```

        System.out.println("Deposition Failed!!!!");
    }
}

public void ShowDetail(){
    System.out.println("Account Number - "+ AccNumber);
    System.out.println("Account Holder's Name - " + AcName);
    System.out.println("Current Account Balance - Rs. "+ Amount + "\n");
}

}

public class Practical1{
    public static void main(String[] args) {
        Account C1= new Account(45787893, "Rajesh Yelsattiwar", 45000.0);
        C1.ShowDetail();
        C1.Deposit(5000);
        C1.ShowDetail();
        C1.Withdraw(5000);
        C1.ShowDetail();
    }
}

```

- **Output:**

Account Number - 45787893
 Account Holder's Name - Rajesh Yelsattiwar
 Current Account Balance - Rs. 45000.0

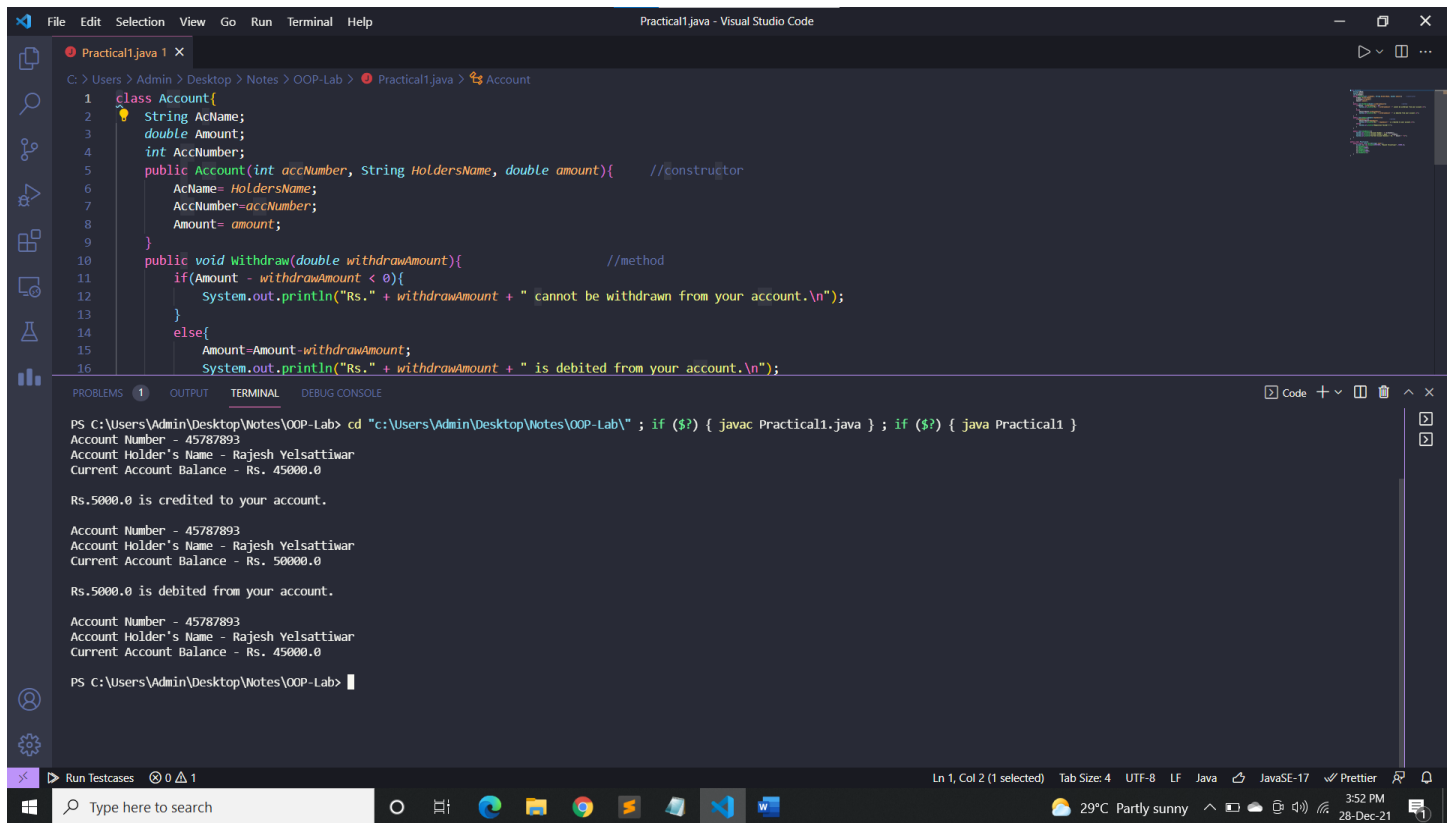
Rs.5000.0 is credited to your account.

Account Number - 45787893
 Account Holder's Name - Rajesh Yelsattiwar
 Current Account Balance - Rs. 50000.0

Rs.5000.0 is debited from your account.

Account Number - 45787893
 Account Holder's Name - Rajesh Yelsattiwar
 Current Account Balance - Rs. 45000.0

- **Screenshot:**



The screenshot displays the Visual Studio Code editor with a Java file named 'Practical1.java'. The code defines a class 'Account' with attributes 'AcName' (String), 'Amount' (double), and 'accNumber' (int). It includes a constructor 'Account' and a method 'Withdraw'. The terminal output shows the execution of the program, displaying account details and the result of a withdrawal attempt.

```
1 class Account{
2     String AcName;
3     double Amount;
4     int accNumber;
5     public Account(int accNumber, String HoldersName, double amount){ //constructor
6         AcName= HoldersName;
7         accNumber=accNumber;
8         Amount= amount;
9     }
10    public void Withdraw(double withdrawAmount){ //method
11        if(Amount - withdrawAmount < 0){
12            System.out.println("Rs." + withdrawAmount + " cannot be withdrawn from your account.\n");
13        }
14        else{
15            Amount=Amount-withdrawAmount;
16            System.out.println("Rs." + withdrawAmount + " is debited from your account.\n");
17        }
18    }
19 }
```

Terminal Output:

```
PS C:\Users\Admin\Desktop\Notes\OOP-Lab> cd "c:\Users\Admin\Desktop\Notes\OOP-Lab\" ; if ($?) { javac Practical1.java } ; if ($?) { java Practical1 }
Account Number - 45787893
Account Holder's Name - Rajesh Yelsattiwar
Current Account Balance - Rs. 45000.0

Rs.5000.0 is credited to your account.

Account Number - 45787893
Account Holder's Name - Rajesh Yelsattiwar
Current Account Balance - Rs. 50000.0

Rs.5000.0 is debited from your account.

Account Number - 45787893
Account Holder's Name - Rajesh Yelsattiwar
Current Account Balance - Rs. 45000.0

PS C:\Users\Admin\Desktop\Notes\OOP-Lab>
```

- **Result:**

By studying implementation of concept of Class and its data members and member functions in Java, I have successfully completed Practical-1.