Name: Dhiraj Birajdar

Batch: 1154

Homework: Encapsulation

BankAccount example of encapsulation: BankAccount class:

```
package encapsulation;
public class BankAccount {
 // Private variables (encapsulated)
  private String accountNumber;
  private double balance;
  private String accountHolder;
 // Public constructor
  public BankAccount(String accountNumber, double balance, String
accountHolder) {
    this.accountNumber = accountNumber;
    this.balance = balance;
    this.accountHolder = accountHolder;
 }
 // Public getter methods to access private variables (encapsulation)
  public String getAccountNumber() {
    return accountNumber;
  public double getBalance() {
    return balance;
  public String getAccountHolder() {
    return accountHolder;
```

```
}
 // Public method to deposit money
  public void deposit(double amount) {
    if (amount > 0) {
       balance += amount;
       System.out.println("Deposit of Rs." + amount + " successful.
New balance: Rs." + balance);
    } else {
       System.out.println("Invalid deposit amount.");
 }
 // Public method to withdraw money
  public void withdraw(double amount) {
    if (amount > 0 && amount <= balance) {</pre>
       balance -= amount;
       System.out.println("Withdrawal of Rs." + amount + " successful.
New balance: Rs." + balance);
    } else {
       System.out.println("Invalid withdrawal amount or insufficient
funds.");
```

## Main class:

```
package encapsulation;
public class TestBankAccount{
    public static void main(String[] args) {
        // Creating an instance of BankAccount
```