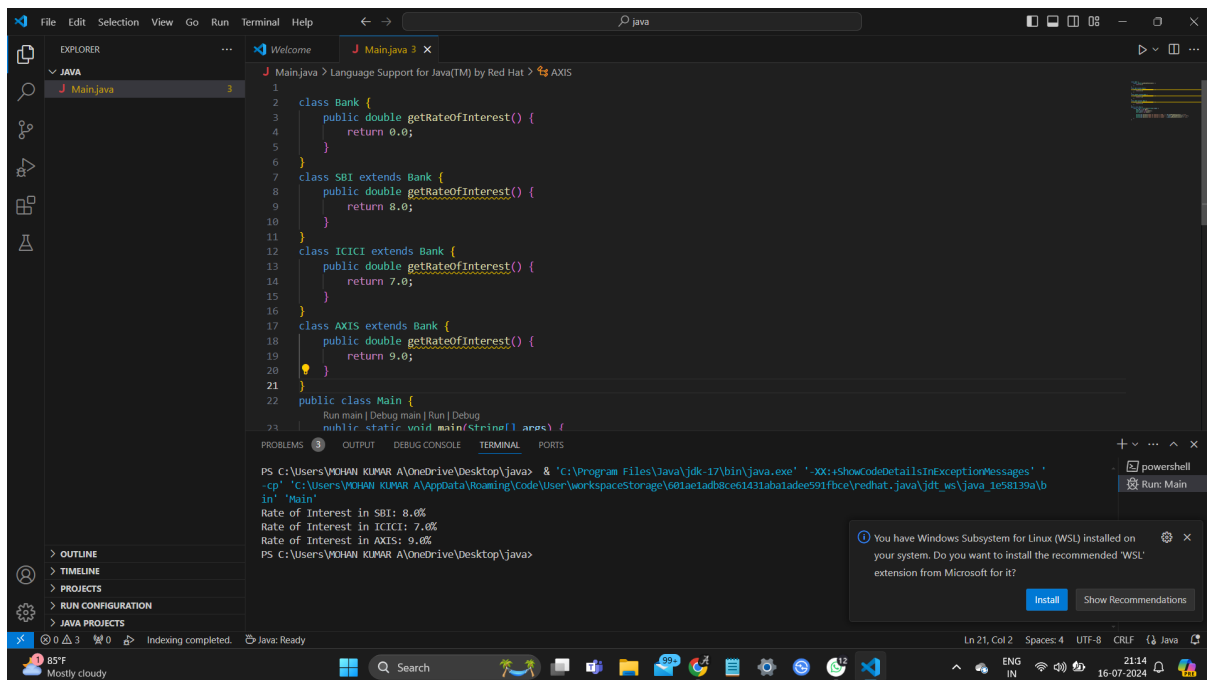


# ASSIGNMENT 3

M.SANTHOSH(192324014)

1) Write java Program for Consider a scenario, Bank is a class that provides functionality to get rate of interest. But, rate of interest varies according to banks. For example, SBI, ICICI and AXIS banks could provide 8%, 7% and 9% rate of interest.(Method Overriding)



The screenshot shows an IDE with a Java project. The Explorer panel on the left shows a file named 'Main.java'. The main editor displays the following code:

```
1 class Bank {
2     public double getRateOfInterest() {
3         return 0.0;
4     }
5 }
6
7 class SBI extends Bank {
8     public double getRateOfInterest() {
9         return 8.0;
10    }
11 }
12 class ICICI extends Bank {
13     public double getRateOfInterest() {
14         return 7.0;
15    }
16 }
17 class AXIS extends Bank {
18     public double getRateOfInterest() {
19         return 9.0;
20    }
21 }
22 public class Main {
23     public static void main(String[] args) {
24         // Run main | Debug main | Run | Debug
25     }
26 }
```

The terminal at the bottom shows the execution output:

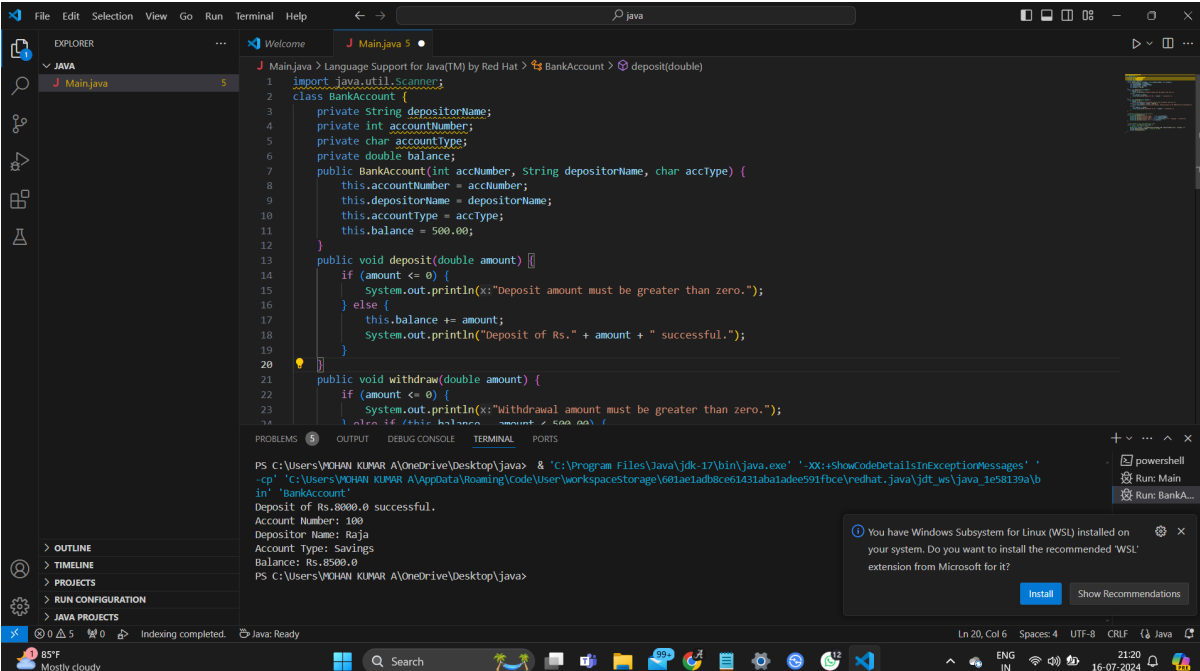
```
PS C:\Users\MOHAN KUMAR A\OneDrive\Desktop\java> & 'C:\Program Files\Java\jdk-17\bin\java.exe' ^-XX:+ShowCodeDetailsInExceptionMessages ^-cp ^"C:\Users\MOHAN KUMAR A\AppData\Roaming\Code\User\workspaceStorage\681ae1adb8ce61431abafadee591fbce\redhat-.java\jdt_ws\java_1e58139a\b" in ^Main
Rate of Interest in SBI: 8.0%
Rate of Interest in ICICI: 7.0%
Rate of Interest in AXIS: 9.0%
PS C:\Users\MOHAN KUMAR A\OneDrive\Desktop\java>
```

A notification box in the bottom right corner states: "You have Windows Subsystem for Linux (WSL) installed on your system. Do you want to install the recommended 'WSL' extension from Microsoft for it?" with buttons for "Install" and "Show Recommendations".

2) . Develop a JAVA code to display the balance. Include the following members:

- Design a class to represent a bank account.
- Data Members: Name of the depositor, Account number, Type of account(Savings/Current), Balance amount in the account(Minimum balance is Rs.500.00)
- Methods:
  1. To read account number, Depositor name, Type of account.
  2. To deposit an amount (Deposited amount should be added with it)
  3. To withdraw an amount after checking balance(Minimum balance must be Rs.500.00)

Note : Assume that balance amount = 10000



```
1 import java.util.Scanner;
2 class BankAccount {
3     private String depositorName;
4     private int accountNumber;
5     private char accountType;
6     private double balance;
7     public BankAccount(int accNumber, String depositorName, char accType) {
8         this.accountNumber = accNumber;
9         this.depositorName = depositorName;
10        this.accountType = accType;
11        this.balance = 500.00;
12    }
13    public void deposit(double amount) {
14        if (amount <= 0) {
15            System.out.println("Deposit amount must be greater than zero.");
16        } else {
17            this.balance += amount;
18            System.out.println("Deposit of Rs." + amount + " successful.");
19        }
20    }
21    public void withdraw(double amount) {
22        if (amount <= 0) {
23            System.out.println("Withdrawal amount must be greater than zero.");
24        } else if (this.balance - amount < 500.00) {
25            System.out.println("Withdrawal amount must be greater than Rs. 500.00.");
26        } else {
27            this.balance -= amount;
28            System.out.println("Withdrawal of Rs." + amount + " successful.");
29        }
30    }
31 }
```

PS C:\Users\VOHAW KUMAR A\OneDrive\Desktop\java> & 'C:\Program Files\Java\jdk-17\bin\java.exe' ^& 'C:\Users\VOHAW KUMAR A\AppData\Roaming\Code\User\workspaceStorage\601ad88ce61431ab1ade591fbc\redhat\_java\jdk\_ws\_java\_1e58139a\b\n' 'BankAccount'

Deposit of Rs.8000.0 successful.  
Account Number: 100  
Depositor Name: Raja  
Account Type: Savings  
Balance: Rs.8500.0

PS C:\Users\VOHAW KUMAR A\OneDrive\Desktop\java>

