**Day 17**

// Calculate rate of interest using method overriding

**package** com.java;

**public** **class** Bank {

**public** **float** getRateOfInterest() {

**float** rate = 0;

**return** rate;

}

}

**package** com.java;

**public** **class** BankSbi **extends** Bank{

**public** **float** getRateOfInterest() {

**float** principalAmount = 10000, time=2, simpleInterest =5;

**float** rate;

rate = simpleInterest\*100/principalAmount\*time;

System.***out***.println("Rate of Interest for SBI Bank is "+rate);

**return** rate;

}

}

**package** com.java;

**public** **class** BankCity {

**public** **float** getRateOfInterest() {

**float** principalAmount = 10000, time =2, simpleInterest = 2;

**float** rate;

rate = simpleInterest\*100/principalAmount\*time;

System.***out***.println("Rate of Interest for City Bank is "+rate);

**return** rate;

}

}

**package** com.java;

**public** **class** BankKotak {

**public** **float** getRateOfInterest() {

**float** principalAmount = 10000, time = 2, simpleInterest =1;

**float** rate;

rate = simpleInterest\*100/principalAmount\*time;

System.***out***.println("Rate of Interest for Kotak Bank is "+rate);

**return** rate;

}

}

**package** com.java;

**import** java.util.Scanner;

**public** **class** BankMain {

**public** **static** **void** main(String args[])

{

Scanner S = **new** Scanner(System.***in***);

System.***out***.println("Enter the Bank");

String input = S.nextLine();

BankSbi ob1 = **new** BankSbi();

BankCity ob2 = **new** BankCity();

BankKotak ob3 = **new** BankKotak();

**if**(input.equals("SBI"))

{

ob1.getRateOfInterest();

}

**else** **if**(input.equals("City"))

{

ob2.getRateOfInterest();

}

**else** **if**(input.equals("Kotak"))

{

ob3.getRateOfInterest();

}

**else**

{

System.***out***.println("Invalid choice. Please enter the Bank name");

}

}

}

**OUTPUT**

