Bank is a class that provides method to get the rate of interest. But, rate of interest may differ according to banks. For example, SBI, ICICI and AXIS banks are providing 8.4%, 7.3% and 9.7% rate of interest. Write a Java program for above scenario.

CODE:

import java.util.Scanner;

class Bank {

public double getRateOfInterest() {

return 0;

}

}

class SBI extends Bank {

public double getRateOfInterest() {

return 8.4;

}

}

class ICICI extends Bank {

public double getRateOfInterest() {

return 7.3;

}

}

class AXIS extends Bank {

public double getRateOfInterest() {

return 9.7;

}

}

public class BankROI {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter bank name (SBI, ICICI, AXIS):");

String bankName = scanner.next();

Bank bank;

switch (bankName.toUpperCase()) {

case "SBI":

bank = new SBI();

break;

case "ICICI":

bank = new ICICI();

break;

case "AXIS":

bank = new AXIS();

break;

default:

System.out.println("Invalid bank name.");

return;

}

double rateOfInterest = bank.getRateOfInterest();

System.out.println("Rate of Interest for " + bankName + " is: " + rateOfInterest + "%");

scanner.close(); // Closing the scanner object

}

}

OUTPUT:

C:\javap>javac BankROI.java

C:\javap>java BankROI

Enter bank name (SBI, ICICI, AXIS):

SBI

Rate of Interest for SBI is: 8.4%

