Day2 Java Class Assignments

1. Are you above 18 years old?

Task: Check if a person is eligible to vote based on age input.

```
package day2Assignment;

import java.util.Scanner;

public class AgeCheck {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Please enter your age: ");
        int age = scanner.nextInt();
        if (age >= 18) {
            System.out.println("You are eligible to vote.");
        } else {
            System.out.println("You are not eligible to vote.");
        }
        scanner.close();
    }
}
```

2. Print Multiplication Table Using For Loop

Task: Print the multiplication table for a given number.

```
package day2Assignment;

import java.util.Scanner;

public class MultiplicationTable {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number to print its multiplication
table: ");
        int number = scanner.nextInt();
        for (int i = 1; i <= 10; i++) {
            System.out.println(number + " x " + i + " = " + (number *
i));
        }
        scanner.close();
    }
}
```

3. Character, String, and Boolean Input Example

Task: Accept character, string, and boolean input from user and display them.

```
package day2Assignment;

import java.util.Scanner;

public class InputExample {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a single character: ");
        char ch = sc.next().charAt(0);
        System.out.print("Enter your name: ");
        String name = sc.next();
        System.out.print("Do you like programming? (true/false): ");
        boolean likes = sc.nextBoolean();
        System.out.println("\n--- User Input Summary ---");
        System.out.println("Character entered: " + ch);
        System.out.println("Name entered: " + name);
        System.out.println("Likes programming: " + likes);
        if (likes) {
            System.out.println("Great! Keep coding, " + name + "!");
        }
        sc.close();
    }
}
```

4. Simple Banking Operations using switch Case

Task: Simulate banking operations like balance check, deposit, and withdrawal.

```
package day2Assignment;

import java.util.Scanner;

public class SimpleBanking {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        double balance = 0;
        int choice;
        do {
            System.out.println("Welcome to ABC Bank");
            System.out.println("1. Check Balance");
            System.out.println("2. Deposit Money");
            System.out.println("3. Withdraw Money");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");
            choice = sc.nextInt();
```

```
            switch (choice) {
                case 1:
                    System.out.println("Your current balance is: ₹" +
balance);
                    break;
                case 2:
                    System.out.print("Enter amount to deposit: ");
                    double deposit = sc.nextDouble();
                    balance += deposit;
                    System.out.println("Deposit successful!");
                    break;
                case 3:
                    System.out.print("Enter amount to withdraw: ");
                    double withdraw = sc.nextDouble();
                    if (withdraw <= balance) {
                        balance -= withdraw;
                        System.out.println("Withdrawal successful!");
                    } else {
                        System.out.println("Insufficient balance.");
                    }
                    break;
                case 4:
                    System.out.println("Thank you for using ABC
Bank!");
                    break;
                default:
                    System.out.println("Invalid choice!");
            }
        } while (choice != 4);
        sc.close();
    }
}
```