

```

class Q1Grade_Classification {

    public static void main(String[] args) {

        int score = 90;

        if (score >= 90) {

            System.out.println("A");

        } else if (score >= 80) {

            System.out.println("B");

        } else if (score >= 70) {

            System.out.println("C");

        } else if (score >= 60) {

            System.out.println("D");

        } else {

            System.out.println("F");

        }

    }

}

```

A

```

import java.util.Scanner;

```

```

public class Q2DaysOfWeek {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a number (1-7) for the day of the week: ");

        int day = scanner.nextInt();

        switch (day) {

            case 1:

```

case 2:

case 3:

case 4:

case 5:

```
System.out.println("Weekday");
```

```
switch (day) {
```

```
    case 1:
```

```
        System.out.println("Monday");
```

```
        break;
```

```
    case 2:
```

```
        System.out.println("Tuesday");
```

```
        break;
```

```
    case 3:
```

```
        System.out.println("Wednesday");
```

```
        break;
```

```
    case 4:
```

```
        System.out.println("Thursday");
```

```
        break;
```

```
    case 5:
```

```
        System.out.println("Friday");
```

```
        break;
```

```
}
```

```
break;
```

case 6:

case 7:

```
System.out.println("Weekend");
```

```
switch (day) {
```

```
    case 6:
```

```
        System.out.println("Saturday");
```

```

        break;
    case 7:
        System.out.println("Sunday");
        break;
    }
    break;
default:
    System.out.println("Invalid input! Please enter a number between 1 and 7.");
    break;
}

scanner.close();
}
}

```

```

Enter a number (1-7) for the day of the week: 4
Weekday
Thursday

```

```

import java.util.Scanner;

class Q3Calculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter first number: ");
        double num1 = scanner.nextDouble();

        System.out.print("Enter second number: ");
        double num2 = scanner.nextDouble();
    }
}

```

```
System.out.print("Enter operator (+, -, *, /): ");
```

```
char operator = scanner.next().charAt(0);
```

```
double result;
```

```
switch (operator) {
```

```
    case '+':
```

```
        result = num1 + num2;
```

```
        System.out.println("Result: " + result);
```

```
        break;
```

```
    case '-':
```

```
        result = num1 - num2;
```

```
        System.out.println("Result: " + result);
```

```
        break;
```

```
    case '*':
```

```
        result = num1 * num2;
```

```
        System.out.println("Result: " + result);
```

```
        break;
```

```
    case '/':
```

```
        if (num2 != 0) {
```

```
            result = num1 / num2;
```

```
            System.out.println("Result: " + result);
```

```
        } else {
```

```
            System.out.println("Error: Division by zero is not allowed.");
```

```
        }
```

```
        break;
```

```
    default:
```

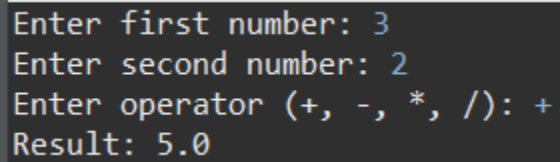
```
        System.out.println("Invalid operator");
```

```

        break;
    }

    scanner.close();
}
}

```



```

Enter first number: 3
Enter second number: 2
Enter operator (+, -, *, /): +
Result: 5.0

```

```

import java.util.Scanner;

class Q4DiscountCalculation {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter total purchase amount: ");
        double totalPurchase = scanner.nextDouble();

        System.out.print("Do you have a membership card? (yes/no): ");
        String hasMembership = scanner.next();

        double discount;
        if (totalPurchase >= 1000) {
            discount = 0.20;
        } else if (totalPurchase >= 500) {
            discount = 0.10;
        } else {

```

```

        discount = 0.05;
    }

    if (hasMembership.equalsIgnoreCase("yes")) {
        discount += 0.05;
    }

    double discountedAmount = totalPurchase - (totalPurchase * discount);
    System.out.println("Discounted amount: Rs." + discountedAmount);

    scanner.close();
}
}

```

```

Enter total purchase amount: 900
Do you have a membership card? (yes/no): yes
Discounted amount: Rs.765.0

```

```

class Q5StudentPassFail {
    public static void main(String[] args) {
        int subject1 = 40; // Example grade for subject 1
        int subject2 = 45; // Example grade for subject 2
        int subject3 = 60; // Example grade for subject 3

        int failCount = 0;

        if (subject1 <= 40)
            failCount++;
        if (subject2 <= 40)
            failCount++;
    }
}

```

```
if (subject3 <= 40)
    failCount++;

if (failCount == 0) {
    System.out.println("Student passes");
} else {
    System.out.println("Student fails in " + failCount + " subjects");
}
}
```

```
Student fails in 1 subjects
```