

**Exercise 2**

(5+5=10 Marks)

Given the following program that deals only with positive integers:

```

public static void main(String[] args) {
    int n = 8;
    if (n>=10 || n==7) {
        System.out.println("The number is 7.");
        System.out.println(" or is outside the range 1 to 9.");
    }
    else
        if (n==1)
            System.out.println("The number is 1.");
        else
            if (n%2 == 0) {
                System.out.println("The number is 2, 4, or 8.");
                System.out.println("(That's a power of 2!)");
            }
            else {
                if (n%3 == 0) {
                    System.out.println("The number is 3, 6, or 9.");
                    System.out.println("(That's a multiple of 3!)");
                }
                else
                    System.out.println("The number is 5.");
            }
}

```

- a) Transform the program above to a program that uses **only** a switch statement.

**Solution:**

In the question, there was a mistake in the condition  $(n\%2 == 0)$ . For  $n=6$ , the first condition that holds is  $(n\%2 == 0)$ . In the correction, we will take that into consideration. According to the meaning of the code above, the corresponding program is:

```

public static void main(String[] args) {
    int n = 8;
    switch (n) {
        case 1:
            System.out.println("The number is 1.");
            break;
        case 2:
        case 4:
        case 8:
            System.out.println("The number is 2, 4, or 8.");
            System.out.println("(That's a power of 2!)");
            break;
        case 3:
        case 6:
        case 9:
            System.out.println("The number is 3, 6, or 9.");
            System.out.println("(That's a multiple of 3!)");
            break;
        case 5:
            System.out.println("The number is 5.");
            break;
        default:
            System.out.println("The number is 7.");
            System.out.println(" or is outside the range 1 to 9.");
    }
}

```

# Introduction To Java Midterm Exam And Answer

**ML Morrison**



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