

Assignment Day 2

Q1. WAP to input hour(24 hour format) and print good morning(<12) / good afternoon(<=16) / good evening(<=20) / good night.

Code:

```
package com.myassignments;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter time (24 hour format)");
        float a = sc.nextFloat();
        if(a<12){
            System.out.println("Good morning!");
        }else if(a<16){
            System.out.println("Good afternoon!");
        }else if(a<20){
            System.out.println("Good evening!");
        }else if(a<24){
            System.out.println("Good night!");
        }else {
            System.out.println("Enter time between 1-24!!!!");
        }
    }
}
```

Output:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBr
Enter time (24 hour format)
20
Good night!

Process finished with exit code 0
```

Q2. Make a full report card program.

Code:

```
package com.myassignments;

import java.util.Scanner;

public class Main {

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

        System.out.println("Enter the marks of 2 subjects (out of 100)");

        System.out.println("Enter the marks of subject 1:");
        float sub1 = sc.nextFloat();

        System.out.println("Enter the marks of subject 2:");
        float sub2 = sc.nextFloat();

        if (sub1 <= 100 && sub2 <= 100) {
            // Total
            float total = sub1 + sub2;
            System.out.println("Total = " + total);

            // Percentage
            float percent = (float) total / 200 * 100;
            System.out.println("Percentage = " + percent);

            // Highest Marks
            if (sub1 > sub2) {
                System.out.println("Highest marks scored is " + sub1);
            } else {
                System.out.println("Highest marks scored is " + sub2);
            }

            // Average
            float avg = (float) total / 2;
            System.out.println("Average is " + avg);

            // Remarks
            if (percent <= 50) {
                System.out.println("Remarks: You need to work hard!");
            } else if (percent >= 80 && percent <= 90) {
                System.out.println("Remarks: Good Marks :)");
            } else if (percent >= 90) {
                System.out.println("Remarks: Excellent");
            } else {
                System.out.println("Remarks: Good");
            }
        } else {
            System.out.println("Values are Greater!");
        }
    }
}
```

Output:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBr
Enter the marks of 2 subjects (out of 100)
Enter the marks of subject 1:
75.5
Enter the marks of subject 2:
78.62
Total = 154.12
Percentage = 77.06
Highest marks scored is 78.62
Average is 77.06
Remarks: Good

Process finished with exit code 0
```