SUBJECT: OOP

REG NO.: FA24-BSE-143

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DATE: 19TH SEP 2025

```java
import java.util.Scanner;
public class functions {

        int totalMarks(int m1, int m2, int m3) {
            return m1 + m2 + m3;
        }
        double averageMarks(int total, int subjects) {
            return (double) total / subjects;
        }
        char grade(double avg) {
            if (avg >= 85)
                return 'A';
            else if (avg >= 70)
                return 'B';
            else if (avg >= 50)
                return 'C';
            else
                return 'F';
        }
        public static void main(String[] args) {
            Scanner input = new Scanner(System.in);
            System.out.println("Enter marks m1:");
            int m1 = input.nextInt();

            System.out.println("Enter marks m2:");
            int m2 = input.nextInt();

            System.out.println("Enter marks m3:");
            int m3 = input.nextInt();

            functions f1 = new functions();

            int total = f1.totalMarks(m1, m2, m3);
            double avg = f1.averageMarks(total, 3);
            char grade = f1.grade(avg);

            System.out.println("Total Marks: " +
total);      System.out.println("Average: " + avg);
            System.out.println("Grade: " + grade);
        }
    }
```

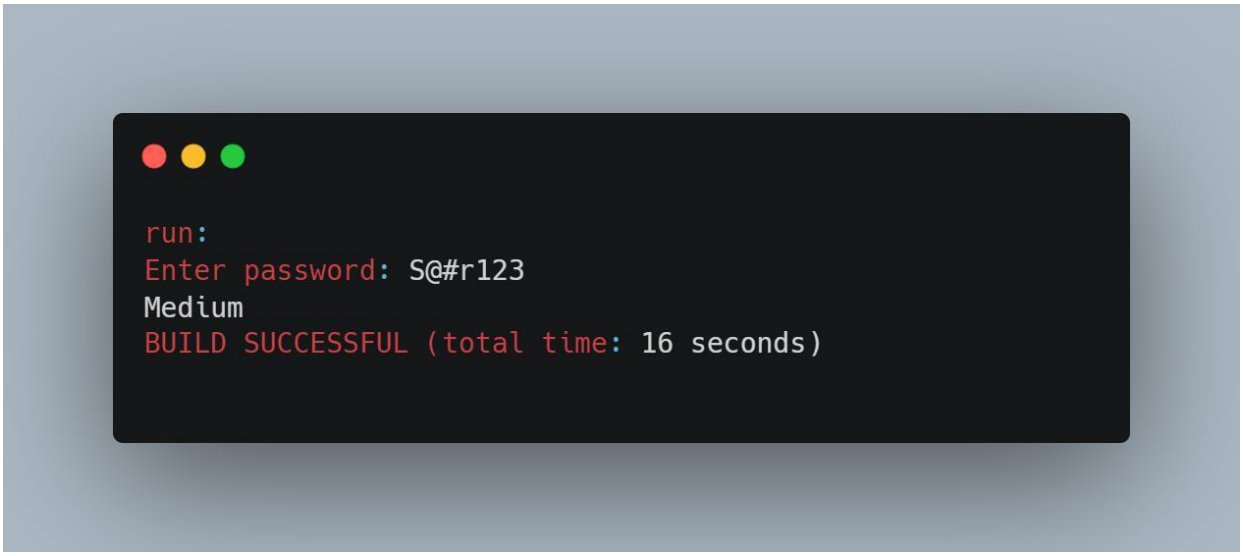
OUTPUT:


"C:\Program Files\Java\jdk-24\bin\java.exe" "-javaagent:C:\Users\Dubai Computers\Downloads\IntelliJ IDEA Community Edition 2025.2\lib\idea_rt.jar=54207" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath "C:\Users\Dubai Computers\IdeaProjects\first java program\out\production\first java program" functions
Enter marks m1:
40
Enter marks m2:
50
Enter marks m3:
30
Total Marks: 120
Average: 40.0
Grade: F
Process finished with exit code 0

```java
package javalabtask;
import java.util.Scanner

public class Javalabtask {
    static Scanner x = new Scanner(System.in);
    public static double EnterBill(double billamount) {
        return billamount;
    }
    public static void SplitBill(double a, int b) {
        if (b == 0) {
            System.out.println("Error: Number of people cannot be 0.");
            return;
        }
        double AmountPerPerson = a / b;
        System.out.println("Amount Per Person = " + AmountPerPerson);
    }
    public static void main(String[] args) {
        System.out.print("Enter restaurant bill: ");
        double bill = x.nextDouble();
        System.out.print("Enter total number of people: ");
        int people = x.nextInt();
        double b = EnterBill(bill);
        System.out.println("Confirmed Total Bill = " + b);
        SplitBill(bill, people);
    }
}
```

```
run:
Enter restaurant bill: 5000
Enter total number of people: 5
Confirmed Total Bill = 5000.0
Amount Per Person = 1000.0
BUILD SUCCESSFUL (total time: 15 seconds)
```

```java
package javalabtask;
import java.util.Scanner;
public class PasswordChecker {
    public static void checkPassword(String password) {
        int length = password.length();
        boolean hasLetter = false;
        boolean hasDigit = false;
        boolean hasSpecial = false;
        for (char ch : password.toCharArray()) {
            if (Character.isLetter(ch)) {
                hasLetter = true;
            } else if (Character.isDigit(ch)) {
                hasDigit = true;
            } else if ("!@#$%^&*".indexOf(ch) != -1) {
                hasSpecial = true;
            }
        }
        if (length < 6) {
            System.out.println("Too Short");
        }
        else if (length <= 10) {
            if ((hasLetter && !hasDigit) || (!hasLetter
&& hasDigit)) {
                System.out.println("Weak");
            } else if (hasLetter && hasDigit) {
                System.out.println("Medium");
            } else {
                System.out.println("Weak");
            }
        }
        else {
            if (hasLetter && hasDigit && hasSpecial) {
                System.out.println("Strong");
            } else if (hasLetter && hasDigit) {
                System.out.println("Strong");
            } else {
                System.out.println("Weak");
            }
        }
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter password: ");
        String pwd = sc.nextLine();

        checkPassword(pwd);
    }
}
```


run:
Enter password: S@#r123
Medium
BUILD SUCCESSFUL (total time: 16 seconds)