NAME

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LAB TASK

03

DATE

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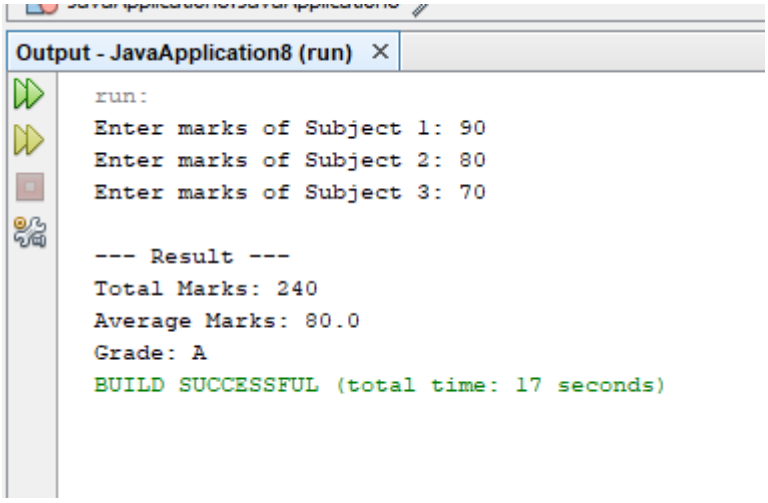
QUESTION :1

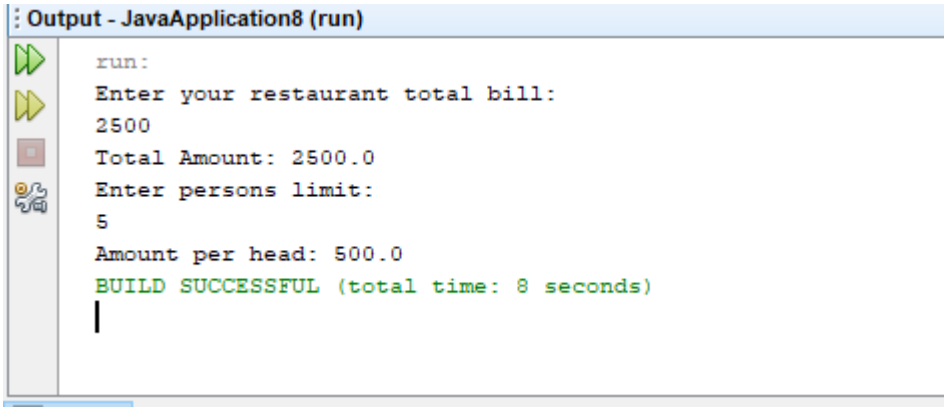
```
package JavaApplication8;

import java.util.Scanner;

public class JavaApplication8 {

    public static int totalMarks(int m1, int m2, int m3) {
        return m1 + m2 + m3;
    }

    public static double averageMarks(int m1, int m2, int m3) {
        return (m1 + m2 + m3 )/3.0;
    }

    public static char grade(double avg) {
        if (avg >= 80) {
            return 'A';
        } else if (avg >= 60) {
            return 'B';
        } else if (avg >= 40) {
            return 'C';
        } else {
            return 'F';
        }
    }

    public static void main(String[] args) {
```

```
        Scanner sc = new Scanner(System.in);



        System.out.print("Enter marks of Subject 1: ");
        int m1 = sc.nextInt();
        System.out.print("Enter marks of Subject 2: ");
        int m2 = sc.nextInt();
        System.out.print("Enter marks of Subject 3: ");
        int m3 = sc.nextInt();
       int total = totalMarks(m1, m2, m3);
        double avg = averageMarks(m1, m2, m3);
        char g = grade(avg);



        System.out.println("\n--- Result ---");
        System.out.println("Total Marks: " + total);
        System.out.println("Average Marks: " + avg);
        System.out.println("Grade: " + g);


        sc.close();
    }
}
```



QUESTION :2

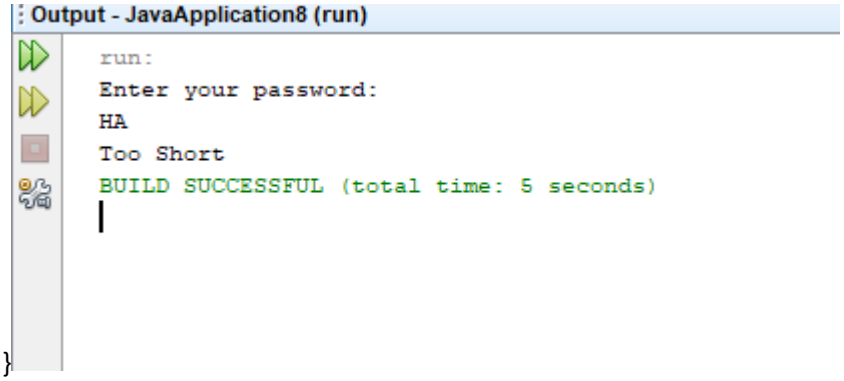
```
package resturant;
import java.util.Scanner;

public class resturant {
 static resturant obj1 = new resturant();
 static Scanner inputs = new Scanner(System.in);

 double EnterBill(double billAmount) {
  return billAmount;
 }

 void splitBill() {
  System.out.println("Enter your restaurant total bill: ");
  double tAmount = inputs.nextDouble();

  System.out.println("Total Amount: " + obj1.EnterBill(tAmount));

  System.out.println("Enter persons limit: ");
  int peoples = inputs.nextInt();

  double amountPerPerson = tAmount / peoples;
  System.out.println("Amount per head: " + amountPerPerson);
 }

 public static void main(String[] args) {
  obj1.splitBill();
  inputs.close();
 }

}
```



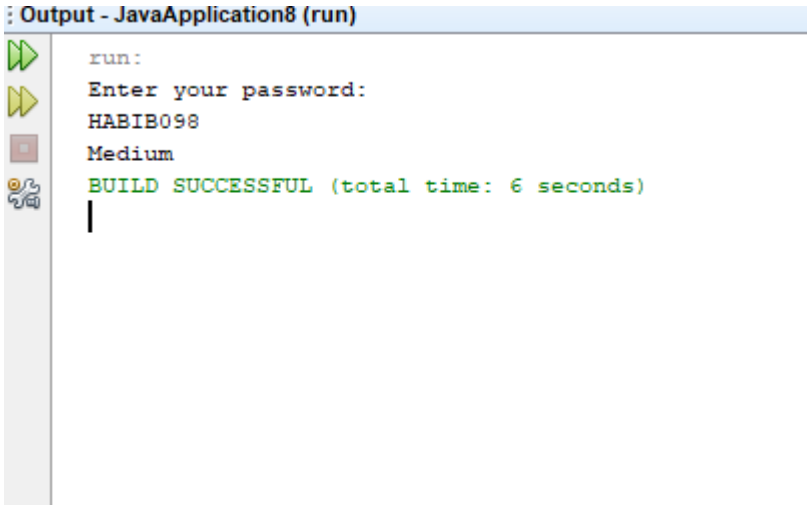
QUESTION :3

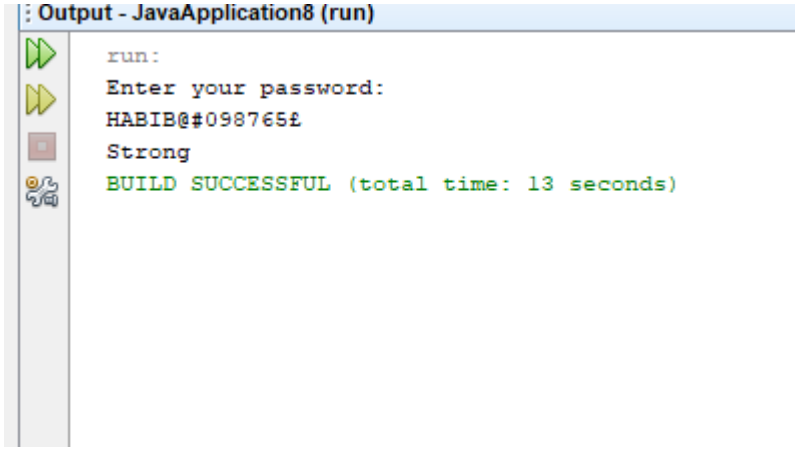
```
package javaapplication8;

import java.util.Scanner;


public class NewClass1 {


    public static void checkPassword(String password) {
        int length = password.length();
        boolean Letter = password.matches(".*[a-zA-Z]*.");
        boolean Digit = password.matches(".*[0-9]*.");
        boolean Special = password.matches(".*[!@#$%^&]*.");


         if (length < 6)
        {
            System.out.println("Too Short");
        }
        else if (length <= 10)
        {
            if ((Letter && !Digit) || (!Letter && Digit))
            {
                System.out.println("Weak");
            }
            else if (Letter && Digit)
```

```
        {
            System.out.println("Medium");
        }
        else
        {
            System.out.println("Weak");
        }
    }
    else
    {
        if (Letter && Digit && Special)
        {
            System.out.println("Strong");
        }
        else
        {
            System.out.println("Medium");
        }
    }
}

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

    System.out.println("Enter your password: ");
    String pass = sc.nextLine();

    checkPassword(pass);
}
```


Output - JavaApplication8 (run)
run:
Enter your password:
HA
Too Short
BUILD SUCCESSFUL (total time: 5 seconds)

}


Output - JavaApplication8 (run)
run:
Enter your password:
HABIB098
Medium
BUILD SUCCESSFUL (total time: 6 seconds)


Output - JavaApplication8 (run)
run:
Enter your password:
HABIB@#0987654
Strong
BUILD SUCCESSFUL (total time: 13 seconds)

THE END