CAP:680 JAVA PROGRAMMING LANGUAGE LABORATORY

ASSIGNMENT-10

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Q.1. Rahul wants to become fit for which he decided to walk to the office and return home by walking. It is known that Rahul's office is X km away from his home. If his office is open on 5 days in a week, find the number of kilometers Rahul travels through office trips in a week. Sachin has recently moved into an apartment. It takes 30 minutes for Sachin to reach office from the apartment. Sachin left for the office X minutes before Sachin was supposed to reach. Determine whether or not. Sachin will be able to reach on time.

Ans: -

```java
import java.util.Scanner;

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

        // Rahul's fitness
        System.out.print("Enter the distance (in km) between Rahul's office and home: ");
        double distance = scanner.nextDouble();
        double weeklyDistance = distance * 2 * 5; // Distance travelled to and from office, 5 days a week
        System.out.println("Rahul travels " + weeklyDistance + " km in a week to go to office.");

        // Sachin's office
        System.out.print("Enter the time (in minutes) it takes for Sachin to reach the office: ");
```

```java
        int timeToReach = scanner.nextInt();

        System.out.print("Enter the time (in minutes) Sachin left before he was
supposed to reach the office: ");

        int timeLeftBeforeReach = scanner.nextInt();

        if (timeToReach <= timeLeftBeforeReach + 30) {

            System.out.println("Sachin will reach the office on time.");

        } else {

            System.out.println("Sachin will be late for the office.");

        }

    }

}
```

OUTPUT


```
PROBLEMS  28      OUTPUT      DEBUG CONSOLE      TERMINAL

Enter the distance (in km) between Rahul's office and home: 40
Rahul travels 400.0 km in a week to go to office.
Enter the time (in minutes) it takes for Sachin to reach the office: 240
Enter the time (in minutes) Sachin left before he was supposed to reach the office: 40
Sachin will be late for the office.
PS D:\VS CODE\JAVA PROGRAM\ASSIGNMENT>
```