Programming Fundamentals

Graded Lab-01

Q1: You are using Motorways for travelling across Pakistan. Your car has MTAG on it so, you don't need to at toll booths, rather you swiftly cross the toll booths using e-lanes, computers automatically deduct the road tax from your account. You start your journey by crediting your MTAG account, your initial balance is 500.

You have to write a program that calculates the amount deducted from your MTAG account at the end of your journey.

Govt. of Pakistan charges 5 rupees per km road usage.

Inputs of your program:

1. Credited amount

2. Distance travel in Km stop Outputs of your program:

1. Amount paid

2. Remaining balance

Sample program:

```
Enter the credited amount: 3500
Enter the traveled distance in km: 320
Road tax amount: 1600
Remaining balance: 2400
```

Q2: Consider the sample array given below:

Write a C+++ program that reads ten values in arrays, and find a value that occurs in consecutive locations.

Note: there may be more than one value that occurs consecutively but you have to look for the first value that meets the desired condition.

Element	1	1	1	0	5	7	0	2	4	7
Index	0	1	2	3	4	5	6	7	8	9

Output for given array will be:
First Consecutive Occurrence is: 1

Element	3	6	8	0	5	7	0	2	4	7
Index	0	1	2	3	4	5	6	7	8	9

Output for given array will be:
First Consecutive Occurrence is: 0