

Day 04 : Lab Assignments

Q#	Experiment Details	Input	Output
1.	WAP to convert given second into its equivalent hour, minute and second as per the following format.	Enter the time:7560 second.	7560 second = 2 Hour, 27 Minute and 40 Second
2.	WAP to convert a distance in meter entered through keyboard into its equivalent kilometer and meter as per the following format.	Enter the distance: 2430 meter.	2430 meter = 2 Km and 430 meters.
3.	WAP to find the sum of 1st and last of a six-digit number. Number must be a user input.	Enter the number: 234459	Sum of digits is: 11.
4.	WAP to find the sum of all digits of a three-digit number. Number must be a user input.	Enter the number: 354	Sum of digits is: 12.
5.	The mark price and discount and buying price are entered through keyboard. Sometimes seller gets profit or some time loss depends on discount. WAP to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss incurred.	Set 1: Enter the buying price: 80 Enter the marker price: 100. Enter the discount: 25% Set 2: Enter the buying price: 80 Enter the marker price: 100. Enter the discount: 25%	Set 1: Seller made a loss of 6.25%. Set 2: Seller made a profit of 12.50%.

Day 04 : Home Assignments (Practice Problems)

Q#	Experiment Details	Input	Output
1.	WAP to reverse a three-digit number. Number must be a user input.	Enter the number: 376.	Sum of digits is: 673.
2.	WAP swap the contents of two variables by using a single statement for swap in C.	Enter num1: 10 Enter num2: 20	Before Swapping num1=10,num2=20 After Swapping num1=20,num2=10
3.	WAP to add two times in hour, minute & second format entered through the keyboard in the format hh:mm:ss	Enter two times: 11:45:34 and 09:28:41 [Input must be taken in such a way so that sum should not exceed 24 hours]	Output time is 21:14:15

Logic

1. // Calculate hours, minutes, and remaining seconds

```
h = (sec/3600);
```

```
m = (sec -(3600*h))/60;
```

```
s = (sec -(3600*h)-(m*60));
```

2.

// Conversion Meters into Kilo meters

```
km = m / 1000;
```

```
m=m%1000;
```

3.

4. Logic for 3 digit number

```
d1=n%10;
```

```
n=n/10;
```

```
d2=n%10;
```

```
n=n/10;
```

```
d3=n%10;
```

```
sum=m1+m2+m3;
```

5.

