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Subject: Data Structures

Practical - 1

Aim: Program for counting number of digits in a number.

Program:

- ➤ Using loop:
 - Program:

```
#include <stdio.h>
int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);

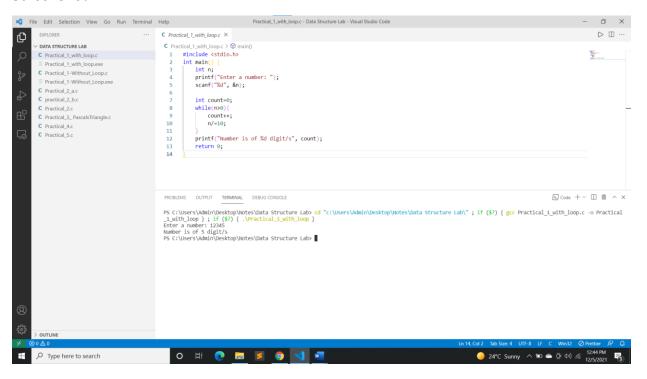
    int count=0;
    while(n>0){
        count++;
        n/=10;
    }
    printf("Number is of %d digit/s", count);
    return 0;
}
```

• Output:

Enter a number: 12345

Number is of 5 digit/s

• Screenshot:



➤ Without using loop:

• Program:

```
#include <stdio.h>
#include <math.h>
int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d", &n);

    int count=log10(n)+1;

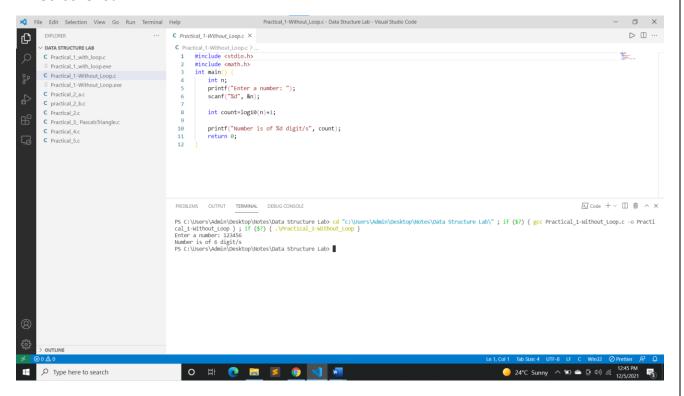
    printf("Number is of %d digit/s", count);
    return 0;
}
```

• Output:

Enter a number: 123465

Number is of 6 digit/s

• Screenshot:



Conclusion: I have successfully done practical 1 with and without using loop.