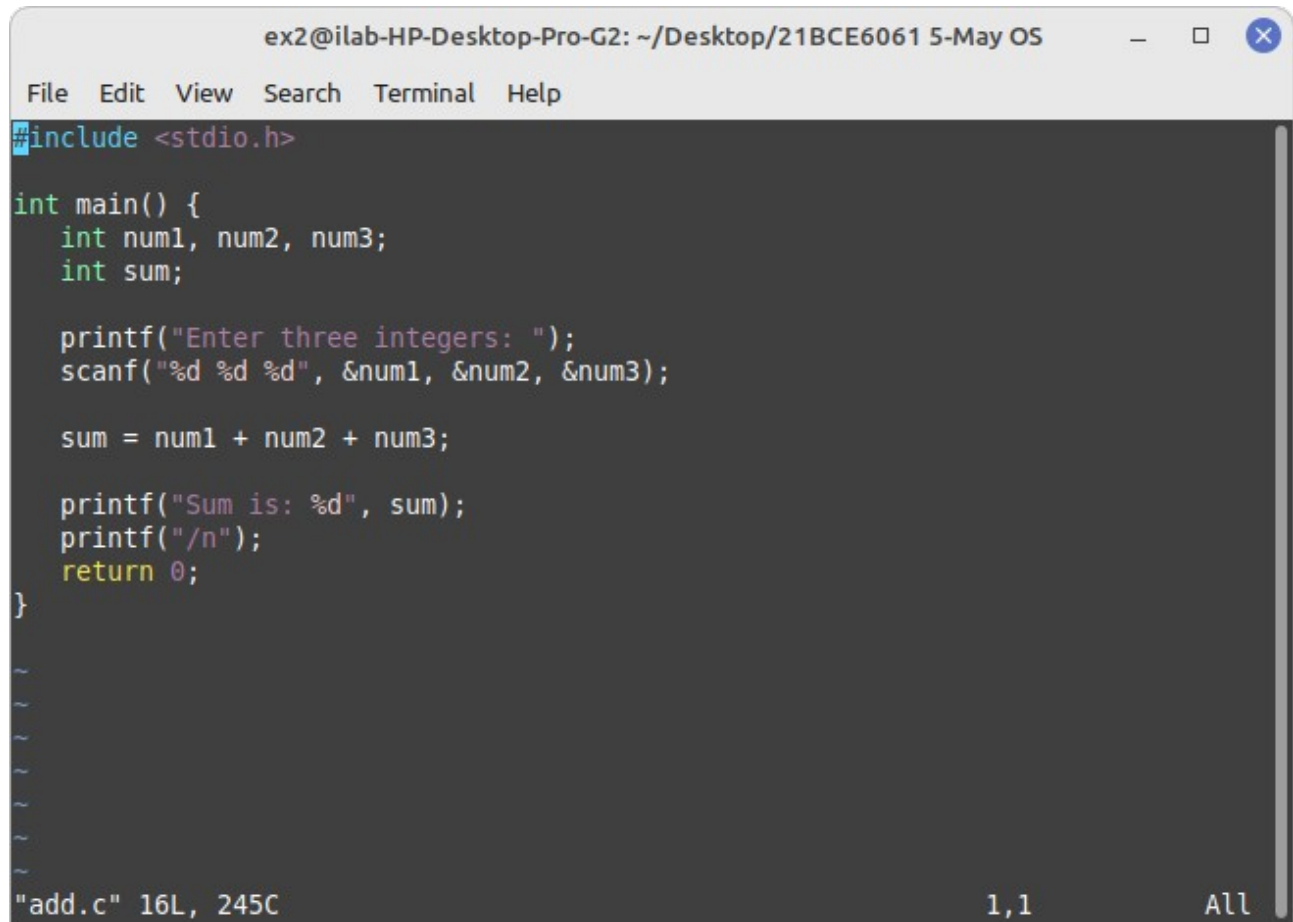


21BCE6061  
Darshan J Patel

Os Lab – 2  
1 st code add 3 number



The screenshot shows a code editor window titled "ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS". The editor has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The code is written in C and is as follows:

```
#include <stdio.h>

int main() {
    int num1, num2, num3;
    int sum;

    printf("Enter three integers: ");
    scanf("%d %d %d", &num1, &num2, &num3);

    sum = num1 + num2 + num3;

    printf("Sum is: %d", sum);
    printf("/n");
    return 0;
}
```

At the bottom of the editor, the status bar shows "add.c" 16L, 245C, "1,1", and "All".

Output :

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Help
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ls
add1.c  add.c  a.out  Command  LSD.c  'Untitled Document'  word.odt
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc add.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter three integers: 5 6 7
Sum is: 18/nex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$
```

## 2nd Question Least Domination

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Help
#include<stdio.h>
int main(){
    int amount , notes[10] = {0};
    printf("Enter the amount: ");
    scanf("%d",&amount);
    int denom[10]={2000,500,200,100,50,20,10,5,2,1};
    for(int i=0 ; i<5;i++){
        notes[i] = amount / denom[i];
        amount %= denom[i];
    }
    printf("Number of 2000 notes: %d\n",notes[0]);
    printf("Number of 500 notes: %d\n", notes[1]);
    printf("Number of 200 notes: %d\n", notes[2]);
    printf("Number of 100 notes: %d\n", notes[3]);
    printf("Number of 50 notes: %d\n", notes[4]);
    printf("Number of 20 notes: %d\n", notes[5]);
    printf("Number of 10 notes: %d\n", notes[6]);
    printf("Number of 5 notes: %d\n", notes[7]);
    printf("Number of 2 notes: %d\n", notes[8]);
    printf("Number of 1 notes: %d\n", notes[9]);
    return 0;
}
~
"LSD.c" 22L, 735C 20,42-49 All
```

Output :

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Help
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ls
add1.c  add.c  a.out  Command  LSD.c  'Untitled Document'  word.odt
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc add.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter three integers: 5 6 7
Sum is: 18/ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ls
add1.c  add.c  a.out  Command  LSD.c  'Untitled Document'  word.odt
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ vi LSD.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc LSD.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter the amount: 10217
Number of 2000 notes: 5
Number of 500 notes: 0
Number of 200 notes: 1
Number of 100 notes: 0
Number of 50 notes: 0
Number of 20 notes: 0
Number of 10 notes: 0
Number of 5 notes: 0
Number of 2 notes: 0
Number of 1 notes: 0
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$
```

3<sup>rd</sup>

write a number k write a c program to find the number of 0;s in k

Input : 5000

Output : 3 0's are there

Code :

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Help
#include <stdio.h>

int main() {
    int k, count = 0;
    printf("Enter an integer: ");
    scanf("%d", &k);

    while(k) {
        if(k % 10 == 0) {
            count++;
        }
        k /= 10;
    }

    printf("The number of 0's in the integer is: %d\n", count);
    return 0;
}

"Q3.c" 18L, 288C 9,1 All
```

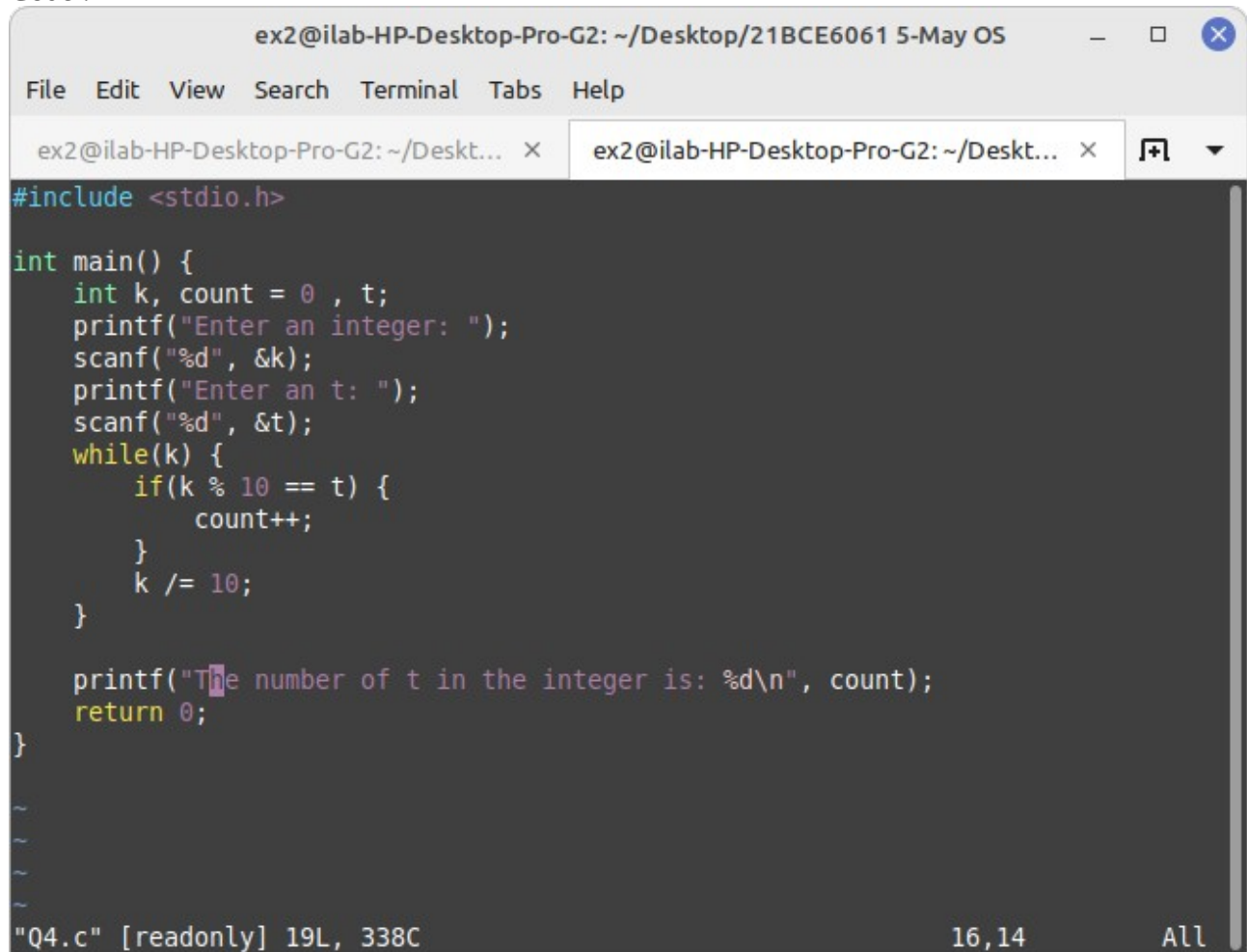
## Output

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Help
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter three integers: 5 6 7
Sum is: 18/nex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ls
add1.c  add.c  a.out  Command  LSD.c  'Untitled Document'  word.odt
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ vi LSD.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc LSD.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter the amount: 10217
Number of 2000 notes: 5
Number of 500 notes: 0
Number of 200 notes: 1
Number of 100 notes: 0
Number of 50 notes: 0
Number of 20 notes: 0
Number of 10 notes: 0
Number of 5 notes: 0
Number of 2 notes: 0
Number of 1 notes: 0
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ vi Q3.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc Q3.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter an integer: 5000
The number of 0's in the integer is: 3
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$
```

Q-4 given a number k and digit t , check if t occurs in k and display the of times of occur in k.



Code :



The screenshot shows a code editor window titled "ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS". The editor has a menu bar with "File", "Edit", "View", "Search", "Terminal", "Tabs", and "Help". Below the menu bar, there are two tabs, both labeled "ex2@ilab-HP-Desktop-Pro-G2: ~/Deskt...". The code is written in C and is as follows:

```
#include <stdio.h>

int main() {
    int k, count = 0 , t;
    printf("Enter an integer: ");
    scanf("%d", &k);
    printf("Enter an t: ");
    scanf("%d", &t);
    while(k) {
        if(k % 10 == t) {
            count++;
        }
        k /= 10;
    }

    printf("The number of t in the integer is: %d\n", count);
    return 0;
}
```

At the bottom of the editor, the status bar shows "Q4.c" [readonly] 19L, 338C, 16,14, and All.

Ouptut :

```
ex2@ilab-HP-Desktop-Pro-G2: ~/Desktop/21BCE6061 5-May OS
File Edit View Search Terminal Tabs Help

ex2@ilab-HP-Desktop-Pro-G2: ~/Deskt... × ex2@ilab-HP-Desktop-Pro-G2: ~/Deskt... ×

ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ls
add1.c  a.out  LSD.c  Q4.c  word.odt
add.c   Command  Q3.c  'Untitled Document'
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc Q4.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter an integer: ^Z
[1]+  Stopped                  ./a.out
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ gcc Q4.c
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$ ./a.out
Enter an integer: 456
Enter an t: 5
The number of t in the integer is: 1
ex2@ilab-HP-Desktop-Pro-G2:~/Desktop/21BCE6061 5-May OS$
```