

TAKE AN INPUT FOR INTEGER N AND PRINT THE DIGIT FREQUENCY OF THE GIVEN DIGIT D

Code in c language:

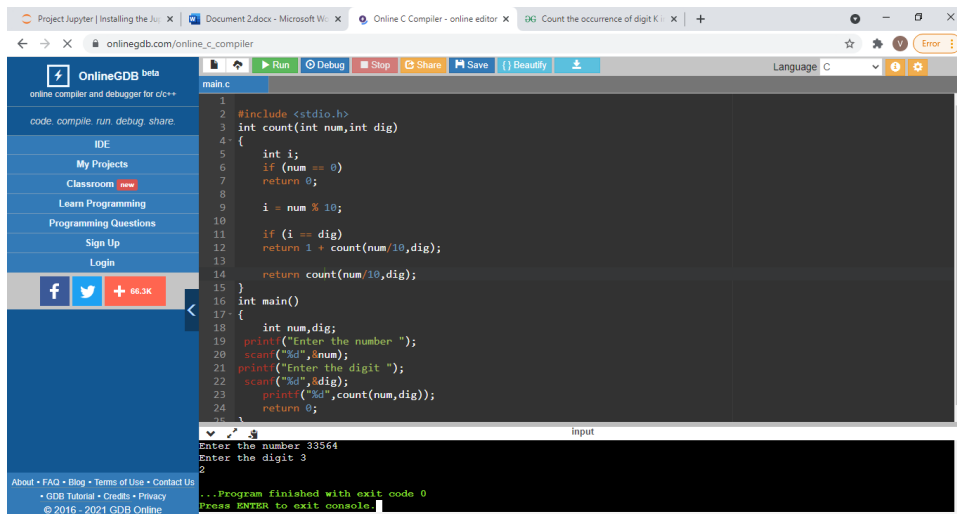
```
#include <stdio.h>

int count(int num,int dig)
{
    int i;
    if (num == 0)
        return 0;

    i = num % 10;

    if (i == dig)
        return 1 + count(num/10,dig);
    return count(num/10,dig);
}

int main()
{
    int num,dig;
    printf("Enter the number ");
    scanf("%d",&num);
    printf("Enter the digit ");
    scanf("%d",&dig);
    printf("%d",count(num,dig));
    return 0;
}
```



The screenshot shows the OnlineGDB C compiler interface. The code editor contains a C program that counts the frequency of a digit in a number. The program uses a recursive function 'count' to iterate through the digits of a number 'num' by dividing it by 10. The main function prompts the user to enter a number and a digit, then calls the 'count' function and prints the result.

```
main.c
1
2 #include <stdio.h>
3 int count(int num,int dig)
4 {
5     int i;
6     if (num == 0)
7         return 0;
8
9     i = num % 10;
10
11     if (i == dig)
12         return 1 + count(num/10,dig);
13     return count(num/10,dig);
14 }
15
16 int main()
17 {
18     int num,dig;
19     printf("Enter the number ");
20     scanf("%d",&num);
21     printf("Enter the digit ");
22     scanf("%d",&dig);
23     printf("%d",count(num,dig));
24     return 0;
25 }
```

Input: Enter the number 33564, Enter the digit 3, 2

Output: ...Program finished with exit code 0, Press ENTER to exit console.

Code in python:

```
N=input("Enter the Number")
```

```
D=input("Enter the digit")
```

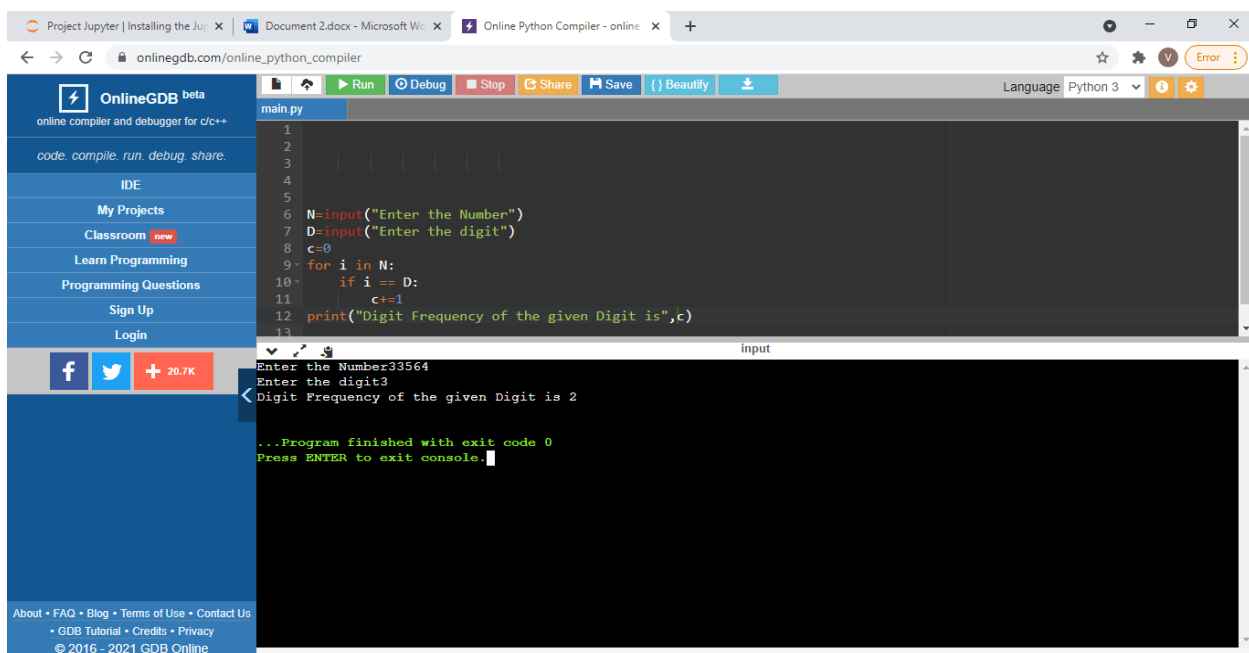
```
c=0
```

```
for i in N:
```

```
    if i == D:
```

```
        c+=1
```

```
print("Digit Frequency of the given Digit is",c)
```



The screenshot shows the OnlineGDB Python compiler interface. The code editor contains the same logic as the C program, but written in Python. The program uses a loop to iterate through the characters of the input string 'N' and counts the occurrences of the digit 'D'. The main function prompts the user to enter a number and a digit, then prints the result.

```
main.py
1
2
3
4
5
6 N=input("Enter the Number")
7 D=input("Enter the digit")
8 c=0
9 for i in N:
10     if i == D:
11         c+=1
12 print("Digit Frequency of the given Digit is",c)
13
```

Input: Enter the Number33564, Enter the digit3, 2

Output: Digit Frequency of the given Digit is 2, ...Program finished with exit code 0, Press ENTER to exit console.