

Adrian Leo Pradana 2106718344
Raafiandy Ghani 2106718445

1. Create a program in C language to request a number 20 times from the user. The number entered can only be 1, 2, or 3. Then the program will calculate the frequency of each number and display it.

Answer :

```
/*TO COUNT THE FREQUENCY OF 1,2,3
ADRIAN LEO PRADANA
2106718344
*/
#include<stdio.h>

int main(){

    int input, freq1=0,freq2=0,freq3=0,invalid=0;

    int counter =0;
    while(counter < 20){

        printf("Enter Number from 1-3 : ");
        scanf("%d", &input);
        if(input == 1){
            freq1 += 1;
        }
        else if(input == 2){
            freq2 += 1;
        }
        else if(input == 3){
            freq3 += 1;
        }
        else{
            invalid += 1;
            printf("\n INVALID NUMBER ");
        }
        counter ++;

    }
    printf("Frekuensi Angka 1 : %d \n", freq1);
    printf("Frekuensi Angka 2 : %d \n", freq2);
    printf("Frekuensi Angka 3 : %d \n", freq3);
    printf("Angka selain 1-3 : %d \n", invalid);

}
```

OUTPUT

C:\Users\LEO\Documents\4.ELEKTRO\Baskom\Lab\Tugas\Prog05_Group3_no1.exe

Enter Number from 1-3 : 3
Enter Number from 1-3 : 6

INVALID NUMBER

Enter Number from 1-3 : 2
Enter Number from 1-3 : 1
Enter Number from 1-3 : 2
Enter Number from 1-3 : 3
Enter Number from 1-3 : 2
Enter Number from 1-3 : 1
Enter Number from 1-3 : 3
Enter Number from 1-3 : 7

INVALID NUMBER

Enter Number from 1-3 : 2
Enter Number from 1-3 : 1
Enter Number from 1-3 : 2
Enter Number from 1-3 : 3
Enter Number from 1-3 : 2
Enter Number from 1-3 : 1
Enter Number from 1-3 : 2
Enter Number from 1-3 : 3
Frekuensi Angka 1 : 5
Frekuensi Angka 2 : 8
Frekuensi Angka 3 : 5
Angka selain 1-3 : 2

2. Similar to number 1), but the user can enter input repeatedly as many times as desired, until a certain sentinel value is entered. Please specify your own sentinel values.

Answer:

```
#include<stdio.h>
```

```
int main(){
    int input, freq1=0,freq2=0,freq3=0,invalid=0;
    int counter =0;
    int inputCount;
    printf("Input Counter : ");
    scanf("%d", &inputCount);
    while(counter < inputCount){
        counter ++;
        printf("Enter Number from 1-3 : ");
        scanf("%d", &input);
        if(input == 1){
            freq1 += 1;
        }
        else if(input == 2){
            freq2 += 1;
        }
        else if(input == 3){
            freq3 += 1;
        }
        else{
            invalid += 1;
            printf("INVALID NUMBER \n");
        }
    }
    printf("\n Frekuensi Angka 1 : %d \n", freq1);
    printf("Frekuensi Angka 2 : %d \n", freq2);
    printf("Frekuensi Angka 3 : %d \n", freq3);
    printf("Angka selain 1-3 : %d \n", invalid);
}
```

OUTPUT:

```
C:\Users\LEO\Documents\4.ELEKTRO\Baskom\Lab\Tugas\Prog05_Group3_no2.exe
Input Counter : 5
Enter Number from 1-3 : 1
Enter Number from 1-3 : 2
Enter Number from 1-3 : 4
INVALID NUMBER
Enter Number from 1-3 : 2
Enter Number from 1-3 : 1

Frekuensi Angka 1 : 2
Frekuensi Angka 2 : 2
Frekuensi Angka 3 : 0
Angka selain 1-3 : 1

-----
Process exited after 6.846 seconds with return value 22
Press any key to continue . . .
```

