Ex_1.c

```c
/*
 * Ex_1.c
 * Created on: Aug 1, 2021
 * Author    : Sarah
 */

#include <stdio.h>

int main(){
    setvbuf(stdout, NULL, _IONBF, 0);
    setvbuf(stderr, NULL, _IONBF, 0);
    char string[100], ch;
    printf("Enter a string: ");
    gets(string);
    printf("Enter a character to find frequency: ");
    scanf("%c", &ch);
    int i = 0, count = 0;
    while(string[i] != '\0'){
        if(string[i] == ch){
            count++;
        }
        i++;
    }
    printf("Frequency of %c = %d", ch, count);
    return 0;
}
```

Console

```
<terminated> (exit value: 0) Ex_1.exe [C/C++ Application]
Enter a string: This website is awesome.
Enter a character to find frequency: e
Frequency of e = 4
```

Ex_2.c

```c
/*
 * Ex_2.c
 * Created on: Aug 1, 2021
 * Author    : Sarah
 */


#include <stdio.h>

int main(){
    setvbuf(stdout, NULL, _IONBF, 0);
    setvbuf(stderr, NULL, _IONBF, 0);
    char string[100];
    printf("Enter a string: ");
    gets(string);
    int i = 0;
    while(string[i] != '\0'){
        i++;
    }
    printf("Length of string: %d", i);
    return 0;
}
```

Console

```
<terminated> (exit value: 0) Ex_2.exe [C/C++ Application]
Enter a string: Programiz
Length of string: 9
```

Ex_3.c

```c
/*
 * Ex_3.c
 * Created on: Aug 1, 2021
 * Author    : Sarah
 */


#include <stdio.h>

int main(){
    setvbuf(stdout, NULL, _IONBF, 0);
    setvbuf(stderr, NULL, _IONBF, 0);
    char string[100];
    printf("Enter a string: ");
    gets(string);
    int i = 0;
    while(string[i] != '\0'){
        i++;
    }
    printf("Reverse string is: ");
    for(int j = i - 1; j >= 0; j--){
        printf("%c", string[j]);
    }
    return 0;
}
```

Console

```
<terminated> (exit value: 0) Ex_3.exe [C/C++ Application]
Enter a string: Pritesh
Reverse string is: hsetirP
```