



Practical  
6

Framing protocol : Character Count  
Perform character count on entered  
character stream. Hello.

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

```
#include <ctype.h>
```

```
int main()
```

```
{
```

```
    char text[1000];
```

```
    int char_count = 0;
```

```
    int alphabets = 0;
```

```
    int digits = 0;
```

```
    int spaces = 0;
```

```
    int special_chars = 0;
```

```
    printf("Enter text to analyze: ");
```

```
    fgets(text, sizeof(text), stdin);
```

```
    for (int i = 0; text[i] != '\0'; i++)
```

```
    {
```

```
        if (text[i] == '\n')
```

```
        {
```

```
            continue;
```

```
        }
```

```
        char_count++;
```

```
        if (isalpha(text[i]))
```

```
        {
```

```
            alphabets++;
```





```
    }  
    else if Cisdigit Ctext[i][j]  
    {  
        digits++;  
    }  
    else if Cisspace Ctext[i][j]  
    {  
        spaces++;  
    }  
    else  
    {  
        special_chars++;  
    }  
}
```

```
printf C"ln Character Analysis Results:\n");  
printf C" - - - - -\n";  
printf C"Total Characters : %d\n", char_count);  
printf C"Alphabets : %d\n", alphabets);  
printf C"Digits : %d\n", digits);  
printf C"Spaces : %d\n", spaces);  
printf C"Special Characters : %d\n", special_chars);
```

```
return 0;
```

```
}
```

18/02/25