

```
① #include <stdio.h>
int main()
{
    char str[40], int i;
    printf("Enter a string\n");
    fgets(str, 40, stdin);
    printf("%s", str);
    printf("\n length of above string is ");
    for(i=0; str[i]; i++);
    printf("%d", i);
    return 0;
}
```

```
② #include <stdio.h>
int main()
{
    char str[50]; int i; char ch; int count = 0;
    printf("Enter string\n");
    fgets(str, 50, stdin);
    printf("%s", str);
    printf("\n Enter a character\n");
    scanf("%c", &ch);
    printf("\n %c", ch);
    for(i=0; str[i]; i++)
    {
        if(str[i] == ch)
            count++;
    }
    printf("\n Occurrence of %c in %s is %d times", ch, str, count);
    return 0;
}
```

GOOD WRITE


```

③ #include <stdio.h>
int main()
{
    char vowel[10] = {'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U'};
    char str[50]; int count = 0;
    printf("Enter a string\n");
    fgets(str, 50, stdin);
    printf("%s", str);
    printf("Number of vowels vowel in above string is ");
    for(int i = 0; str[i] != '\0'; i++)
    {
        for(int j = 0; j < 10; j++)
        {
            if(str[i] == vowel[j])
            {
                count++;
                break;
            }
        }
    }
    printf("%d", count);
    return 0;
}

```



```

④ #include <stdio.h>
int main()
{
    char str[100];
    printf("Enter a string\n");
    scanf fgets(str, 100, stdin);
    printf("%s", str);
    printf("\nString in Upper Case\n");
    for (int i = 0; str[i]; i++)
    {
        if (str[i] >= 97 && str[i] <= 122)
            str[i] = str[i] - 32;
    }
    printf("%s", str);
    return 0;
}

```

```

⑤ #include <stdio.h>
int main()
{
    char str[100];
    printf("Enter a string\n");
    fgets(str, 100, stdin);
    printf("%s", str);
    printf("\nString in Lower Case\n");
    for (int i = 0; str[i]; i++)
    {
        if (str[i] >= 65 && str[i] <= 90)
            str[i] = str[i] + 32;
    }
    printf("%s", str);
    return 0;
}

```


⑦ #include <stdio.h>

int main()

{

char str[100];

int i, count₁=0, count₂=0, count₃=0;

printf("Enter a string\n");

fgets(str, 100, stdin);

printf("a %s", str);

for(i=0; str[i]; i++)

{

if(str[i] == ' ')

continue;

if(str[i] >= 'A' && str[i] <= 'Z' || str[i] >= 'a' && str[i] <= 'b')

count₁++;

else if(str[i] >= '0' && str[i] <= '9')

count₂++;

else

count₃++;

}

}


```

⑧ #include <stdio.h>
int main()
{
    int i;
    char str[50], s[50];
    printf("Enter a string\n");
    fgets(str, 50, stdin);
    printf("%s", str);
    printf("\nString gets copied\n");
    for(i=0; str[i]; i++)
    {
        s[i] = str[i];
    }

    printf("%s", s);
    return 0;
}

```

```

⑩ #include <stdio.h>
int main()
{
    int i, count;
    char str[50], s[50];
    printf("Enter a string\n");
    fgets(str, 50, stdin);
    printf("%s", str);
    printf("\n");
    for(i=0; str[i]; i++)
    {
        count = 1;
    }
}

```



```
if (str[i] == ' ');
```

```
continue;
```

```
for (j = i - 1; j >= 0; j--)
```

```
if (str[j] == str[i]) { str[i] = str[j] + 32 || str[i] = str[j] - 32 }  
break;
```

```
}
```

```
if (j >= 0)
```

```
continue;
```

```
for (j = i + 1; str[j]; j++)
```

```
{
```

```
if (str[j] == str[i]) { str[i] = str[j] + 32 || str[i] = str[j] - 32 }  
count++;
```

```
}
```

```
printf(" %c repeated in %d times in a string", str[i], count);
```

```
}
```

```
return 0;
```

```
}
```