

Day : Strings (7-8-2025)

1. Write a program to find the length of a string without using strlen().

IPO

Input : get a value as input

Process: to find the length of a string by the if condition

Str[i]!='\0' to print the length of the input

Output: output the length of input

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

```
void main()
```

```
{
```

```
    char str1[10]="welcome";
```

```
    int i,count=0;
```

```
    printf("%s",str1);
```

```
    for(i=0;i<10;i++)
```

```
    {
```

```
        if(str1[i]!='\0')
```

```
        count++;
```

```
    }
```

```
    printf("%d\n",count);
```

```
}
```

```
    welcome7
```

input

```
...Program finished with exit code 0  
Press ENTER to exit console.
```

2. Write a program to copy one string to another.

IPO

Input : get a value as input

Process: to program the given input to copy one string to another by copying str1 to str2.

Output: output the str2 same like str 1

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

```
void main()
```

```
{
```

```
    char str1[10]="welcome";
```

```
    char str2[10];
```

```
    int i;
```

```
    for(i=0;i<10;i++)
```

```
    {
```

```
        str2[i]=str1[i];
```

```
    }
```

```
    printf("%s",str2);
```

```
}
```



```
welcome
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console.□
```

3. Write a program to concatenate two strings.

IPO

Input : get two value as input

Process: to program the concatenate two strings , like for eg

If str1 is welcome then str2 is home means in str3 it has to print in the format welcome home

Output: output the concatenate two strings

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

```
void main()
```

```
{
```

```
    char str1[10]="welcome";
```

```
    char str2[6]="homes";
```

```
    char str3[11];
```

```
    int i;
```

```
    for(i=0;i<10;i++)
```

```
    {
```

```
        str3[i]=str1[i];
```

```
    }
```

```
    printf("%s",str1);
```

```
    {
```

```
        str3[i]=str2[i];
```

```
    }
```

```
        printf("%s",str2);
```

```
}
```



```
welcome home

...Program finished with exit code 0
Press ENTER to exit console.
```

4. Write a program to compare two strings.

IPO

Input : get two values as input

Process: to program to compare two strings

Output: output the greatest

```
void main()
```

```
{
```

```
    int count1=0,count2=0,flag=0,i;
```

```
    char str1[30],str2[30];
```

```
    while (str1[count1]!='\0')
```

```
        count1++;
```

```
    while (str2[count2]!='\0')
```

```
        count2++;
```

```
    i=0;
```

```
    while(str1[i]==str2[i]&&str1[i]!='\0')
```

```
    {
```

```
        i++;
```

```
    }
```

```
    if (str1[i]>str2[i])
```

```
        printf("str1 is greater than str2\n");
```

```

else if(str1[i]<str2[i])

    printf("str2 is greater than str1\n");

else

    printf("both str are equal\n");

}

```



```

both str are equal

...Program finished with exit code 0
Press ENTER to exit console.

```

5. Write a program to count vowels and consonants in a string.

IPO

Input : to get values as input

Process: to program to count the vowels and consonants in a string

Output: output the vowels and consonants in a string

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

```
void main()
```

```
{
```

```
    char str1[15]="welcome To SEE";
```

```
    int i,count=0,vcount=0;
```

```
    printf("%s",str1);
```

```
    for(i=0;i<15;i++)
```

```
    {
```

```
        if((str1[i]=='a')||(str1[i]=='e')||(str1[i]=='i')||(str1[i]=='o')||(str1[i]=='u'))
```


```
            vcount++;
```

```

else
{
    count++;
}
}

printf(" vcount= %d\n count= %d\n",vcount,count);
}

```


...

```

welcome To SEE vcount= 4
count= 11

```

```

...Program finished with exit code 0
Press ENTER to exit console.

```

6. Write a program to convert lowercase to uppercase and vice versa

7. Write a program to check if a string is palindrome.

IPO

Input : get a value a value as input

Process: to program string is palindrome by considering flag==0

```
Str1[i]=str[i];
```

Output: output the program to string is palindrome

```
#include<string.h>
```

```
void main()
```

```
{
```

```
    char a[5] = "level";
```

```
    char b[10];
```

```
    int i,len,flag = 0;
```

```
    len = strlen(a);
```

```

for (i = 0; i < len; i++)
{
    b[i] = a[len - 1 - i];
}
b[len] = '\0'; // Null-terminate the reversed string
for (i = 0; i < len; i++)
{
    if (a[i] != b[i])
    {
        flag = 1;
        break;
    }
}

if (flag == 0)
    printf("Palindrome");
else
    printf("Not apalindrome");
}

```



```

input
Palindrome
...Program finished with exit code 0
Press ENTER to exit console.

```

8. Write a program to reverse a string.

IPO

Input : get a value as input

Process: to program to reverse a string by

```
Str3[i]=str[l]
```

Output: output the value as reverse a string of given input

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

```
void main()
```

```
{
```

```
    char str1[10]="welcome";
```

```
    char str2[10];
```

```
    char str3[10];
```

```
    int i;
```

```
    for(i=0;i<10;i++)
```

```
    {
```

```
        str2[i]=str1[i];
```

```
    }
```

```
    printf("%s",str1);
```

```
    int l=6;
```

```
    for(i=0;i<7;i++)
```

```
    {
```

```
        str3[i]=str1[l];
```

```
        l--;
```

```
    }
```

```
    printf(" %s",str3);
```

```
}
```



```
| ▼ ↩ 📄 🐞 ➡  
welcome emoclew
```

```
...Program finished with exit code 0  
Press ENTER to exit console.█
```

9. Write a program to count words in a string.

IPO

Input : get a value as input

Process: to program the count words in a string

By the condition Str1[i]=' '

Output: output the words count in input

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

```
void main()
```

```
{
```

```
    char str1[10]="welcome";
```

```
    int i,count=0;
```

```
    printf("%s",str1);
```

```
    for(i=0;i<10;i++)
```

```
    {
```


```
        if(str1[i]!='\0')
```

```
        count++;
```

```
    }
```

```
    printf("%d\n",count);
```

```
}
```



```
welcome 7

...Program finished with exit code 0
Press ENTER to exit console.[]
```

10. Write a program to find the frequency of each character in a string.

IPO

Input : get a value as input

Process: to program to find the frequency of each character in given input like 1,2,3,2 as 2 occurs 2 times and others frequency 1

Output : output the frequency of each character in a string

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

```
void main()
```

```
{
```

```
    int a[5]={1,2,1,2,3};
```

```
    int b[5];
```

```
    b[0]=a[0];
```

```
    int flag=0,i,j,k=0;
```

```
    for (i=0;i<5;i++)
```

```
    {
```

```
        flag =0;
```

```
        for (j=0;j<5;j++)
```

```
        {
```

```
            if(a[i]==b[j])
```

```
{
    flag=1;break;
}
}
if (flag==0)
{
    b[k]=a[i];
    k++;
}
}
int count=0;
for (i=0;i<k;i++)
{
    count=0;
    for(j=0;j<5;j++)
    {
        if(b[i]==a[j])
            count++;
    }
    printf("%d-%d\n",b[i],count);
}
}
```



2-2

1-2

3-1

...Program finished with exit code 0  
Press ENTER to exit console.

---

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