Logic Building Assignment : 24

1.Write a program which accept string from user and accept one character. Check whether that character is present in string or not.

Input :   **"Marvellous Multi OS"**

            e

Output :   **TRUE**

Input :   **"Marvellous Multi OS"**

            W

Output :   **FALSE**

```
#define TRUE 1
#define FALSE 0

typedef int BOOL

BOOL ChkChar(char *str, char ch)
{
        // Logic
}

int main()
{
    char arr[20];
    char cValue;
    BOOL bRet = FALSE;
```

```
    printf("Enter string");
    scanf("%[^'\n']s",arr);


    printf("Enter the character");
    scanf("%c",&cValue);


    bRet = ChkChar(arr, cValue);


    if(bRet == TRUE)
    {
        printf("Character found");
    }
    else
    {
        printf("Character not found");
    }


    return 0;
}
```

2.Write a program which accept string from user and accept one character. Return frequency of that character.

Input :   **"Marvellous Multi OS"**

                  M

Output :   **2**

Input :   **"Marvellous Multi OS"**

                  W

Output :   **0**

```c
int CountChar(char *str, char ch)
{
        // Logic
}

int main()
{
    char arr[20];
    char cValue;
    int iRet = 0;

    printf("Enter string");
    scanf("%[^'\n']s",arr);

    printf("Enter the character");
    scanf("%c",&cValue);

    iRet = CountChar(arr, cValue);

    printf("Character frequency is %d",iRet);

    return 0;
}
```

3.Write a program which accept string from user and accept one character. Return index of first occurrence of that character.

Input :   **"Marvellous Multi OS"**

            M

Output :   **0**

Input :   **"Marvellous Multi OS"**

                    W

Output :   **-1**

Input :   **"Marvellous Multi OS"**

                    e

Output :   **4**

```c
int FirstChar(char *str, char ch)
{
        // Logic
}

int main()
{
    char arr[20];
    char cValue;
    int iRet = 0;

    printf("Enter string");
    scanf("%[^'\n']s",arr);

    printf("Enter the character");
    scanf("%c",&cValue);

    iRet = FirstChar(arr, cValue);

    printf("Character location is %d",iRet);

    return 0;
```

}

4.Write a program which accept string from user and accept one character. Return index of last occurrence of that character.

Input :	**"Marvellous Multi OS"**
	M
Output :	**11**
Input :	**"Marvellous Multi OS"**
	W
Output :	**-1**
Input :	**"Marvellous Multi OS"**
	e
Output :	**4**

```
int LastChar(char *str, char ch)
{
        // Logic
}

int main()
{
    char arr[20];
    char cValue;
    int iRet = 0;

    printf("Enter string");
```

```
    scanf("%[^'\n']s",arr);

    printf("Enter the character");
    scanf("%c",&cValue);

    iRet = LastChar(arr, cValue);

    printf("Character location is %d",iRet);

    return 0;
}
```

5. Write a program which accept string from user reverse that string in place.

Input :   **"abcd"**

Output :   **"dcba"**

Input :   **"abba"**

Output :   **"abba"**

```
void StrRevX(char *str)
{
        // Logic
}

int main()
{
    char arr[20];
```

```
printf("Enter string");
scanf("%[^'\n']s",arr);

StrRevX(arr);

printf("Modified string is %s",arr);

return 0;
}
```