

Logic Building Assignment: 27

Create separate visual Studio project for each problem statement separately.

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

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



```
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
```

```
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"

е

Output: 4



```
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.
              "abcd"
Input:
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;
```

