

## Logic Building Assignment: 29

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** "Marvellous Multi OS" Input: W **FALSE Output:** #define TRUE 1 #define FALSE 0 typedef int BOOL BOOL ChkChar(char \*str, char ch) { // Logic }

char arr[20];

char cValue;

BOOL bRet = FALSE;

int main()

{



```
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"

e

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.

Input: "abcd"

Output: "dcba"

Input: "abba"

Output: "abba"

}



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

StrRevX(arr);

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

return 0;
```

