

Logic Building Assignment : 22

Create separate visual Studio project for each problem statement separately.

1. Write a program which accept string from user and count number of capital characters.

Input : "Marvellous Multi OS"

Output : 4

```
int CountCapital(char *str)
{
    int iCnt = 0;

    // Fileter

    while(*src != '\0')
    {
        // Logic
    }

    return _____;
}
```

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

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

```
iRet = CountCapital(arr);

printf("%d",iRet);

return 0;
}
```

2. Write a program which accept string from user and count number of small characters.

Input : "Marvellous"

Output : 9

```
int CountSmall(char *str)
{
    int iCnt = 0;

    // Fileter

    while(*src != '\0')
    {
        // Logic
    }

    return ____;
}
```

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

```
printf("Enter string");  
scanf("%[^\\n']s",arr);  
  
iRet = CountSmall(arr);  
  
printf("%d",iRet);  
  
return 0;  
}
```

3. Write a program which accept string from user and return difference between frequency of small characters and frequency of capital characters.

Input : "Marvellous"

Output : 6 (8-2)

```
int Difference(char *str)  
{  
    int iCnt = 0;  
  
    // Fileter  
  
    while(*src != '\\0')  
    {  
        // Logic  
    }  
  
    return _____;  
}
```

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

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

    iRet = Difference(arr);

    printf("%d",iRet);

    return 0;
}
```

4. Write a program which accept string from user and check whether it contains vowels in it or not.

Input : "marvellous"

Output : TRUE

Input : "Demo"

Output : TRUE

Input : "xyz"

Output : FALSE

BOOL ChkVowel(char *str)

```
{  
    // Logic  
}  
  
int main()  
{  
    char arr[20];  
    BOOL bRet = FALSE;  
  
    printf("Enter string");  
    scanf("%[^\\n's",arr);  
  
    bRet = ChkVowel(arr);  
    if(bRet == TRUE)  
    {  
        printf("Contains Vowel");  
    }  
    else  
    {  
        printf("There is no Vowel");  
    }  
  
    return 0;  
}
```

3. Write a program which accept string from user and display it in reverse order.

Input : "Marvellous"

Output : "SuolleVraM"

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

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

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

    Reverse(arr);

    return 0;
}
```

