# Logic Building Assignment : 25

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 inn 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;
}
```