

Logic Building Assignment : 37

Create separate visual Studio project for each problem statement separately.

1. Write a program which accept string from user count number of words from string

Input : "Marvellous Multi OS"

Output : 3

Input : " Marvellous Multi OS Pune"

Output : 4

Solution :

```
int WordCount(char *str)
{
    int iCnt = 0;
    if(str == NULL)
    {
        return -1;
    }

    // Logic

    return iCnt;
}
```

2. Write a program which accept string from user and return length of largest word.

Input : "Marvellous Multi OS Infosystems"

Output : 11

```
int WordCount(char *str)
{
    int iMax = 0;

    if(str == NULL)
    {
        return -1;
    }

    while(*str!= '\0')
    {
        if(*str == ' ')
        {
            while((*str == ' ') && (*str!= '\0'))
            {
                str++;
            }
        }
        else
        {
            // Logic
        }
    }
    return iMax;
}
```

3. Write a program which accept string from user and reverse each word in place.

Input : "Marvellous Multi OS"

Output : "suollevrM itluM SO"

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

4. Write a program which accept string from user and copy the contents into another string by removing extra white spaces.

Input : "Marvel lous multi OS"

Output : "Marvellous multi OS"

```
void StrCpyX(const char *src, char *dest)
{
    // Copy the contents into dest by removing extra white spaces
}
```

```
int main()
{
    char arr[30] = "Marvellous multi OS";
    char brr[30]; // Empty string
    StrCpyX(arr,brr);

    printf("%s",brr); // Marvellous multi OS
    return 0;
}
```

5. Write a program which accept string from user and replace each occurrence of first character of each word into capital case.

Input : **"marvellous infossystems by Piyush khairnar"**

Output : **"Marvellous Infossystems By Piyush Khairnar"**

```
void StrCap(char *str)
{
    // Traverse string and convert first character into capital case
}

int main()
{
    char arr[50] = "marvellous infossystems by Piyush khairnnar";

    StrCap(arr);

    printf("%s",arr);    // Marvellous Infossystems By Piyush Khairnnar

    return 0;
}
```