

Logic Building Assignment : 14

Complete below code snippets it contains only service provider function.

Write entry point function to call below helper functions separately.

Create separate visual Studio project for each problem statement separately.

Each project should contains below things

- File which contains entry point function
- File which contains helper function
- File which works as header file

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

Input : "Marvellous Multi OS"

Output : 3

Solution :

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

    while(*str!= '\0')
    {
        if(*str == ' ')
        {
            while((*str == ' ') && (*str!= '\0'))
            {
                str++;
            }
            iCnt++;
        }
        str++;
    }
    return iCnt;
}
```

```
        str++;
    }
}
else
{
    iCnt++;
    while((*str != ' ') && (*str!= '\0'))
    {
        str++;
    }
}
return iCnt;
}
```

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

Input : "Marvellous Multi OS Infossystems"

Output : 11

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

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

    while(*str!= '\0')
    {
```

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

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

Input : "Marvellous Multi OS"

Output : "suolleвраM itluM SO"

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

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

Input : "Marvel lous multi OS"

Output : "MarvellousmultiOS"

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

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

    StrCpyX(arr,brr);

    printf("%s",brr);   // MarvellousmultiOS

    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 infosystems by Piyush khairnnar";
```

```
StrCap(arr);
```

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

```
return 0;
```

```
}
```

