

Logic Building Assignment : 30

Create separate visual Studio project for each problem statement separately.

1. Write a program which accept string from user and copy the contents of that string into another string. (Implement strcpy() function)

Input : "Marvellous Multi OS"

Output : "Marvellous Multi OS" in another string

```
void StrCpyX(char *src, char *dest)
{
    // Fileter
    while(*src != '\0')
    {
        *dest = *src;
        src++;
        dest++;
    }
    _____ ;
}

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

    StrCpyX(arr,brr);

    prnitf("%s",brr);      // Marvellous Multi OS
```

```
    return 0;
}
```

2. Write a program which accept string from user and copy the contents of that string into another string. (Implement strncpy() function)

Input : **"Marvellous Multi OS"**
 10

Output : **"Marvellous**

Note : If third parameter is greater than the size of source string then copy whole string into destination.

```
void StrNCpyX(char *src, char *dest, int iCnt)
{
    // Fileter
    while((*src != '\0') && (icnt != 0) )
    {
        *_____ = *_____;
        _____ ++;
        _____ ++;
        _____ - -;
    }
    _____ ;
}

int main()
{
    char arr[30] = "Marvellous Multi OS";
    char brr[30];      // Empty string
    StrNCpyX(arr,brr,10);
```

```
printf("%s",brr);    // Marvellous
```

```
return 0;
```

```
}
```

3. Write a program which accept string from user and copy capital characters of that string into another string.

Input : **"Marvellous Multi OS"**

Output : **"MMOS"**

```
void StrCpyCap(char *src, char *dest)
{
    // Filter
    while(*src != '\0')
    {
        if((*src >= 'A') && (_____))
        {
            *_____ = *_____ ;
            _____ ++;
        }
        _____ ++;
    }
    _____ ;
}
```

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

    StrCpyCap(arr,brr);
```

```
printf("%s",brr);    // MMOS
```

```
return 0;
```

```
}
```

4. Write a program which accept string from user and copy small characters of that string into another string.

Input : "Marvellous multi OS"

Output : "arvellous multi"

```
void StrCpySmall(char *src, char *dest)
```

```
{
```

```
    // Filter
```

```
    while(*src != '\0')
```

```
    {
```

```
        if((*src >= 'a') && (_____))
```

```
        {
```

```
            *_____ = *_____;
```

```
            _____ ++;
```

```
        }
```

```
        _____ ++;
```

```
    }
```

```
    _____ ;
```

```
}
```

```
int main()
```

```
{
```

```
    char arr[30] = "Marvellous multi OS";
```

```
    char brr[30];    // Empty string
```

```
StrCpySmall(arr,brr);
```

```
printf("%s",brr);    // arvellous multi
```

```
return 0;
```

```
}
```

5. Write a program which 2 strings from user and concat second string after first string. (Implement strcat() function).

Input : **"Marvellous Infosystems"**
 "Logic Building"

Output : **"Marvellous Infosystems Logic Building"**

```
void StrCatX(char *src, char * dest)
{
    // Filter
    while(*str != _____)    // Traverse first string till end
    {
        // Logic
    }
    while(* dest != '\0')    // Copy contents of destination in source
    {
        // Logic
    }
    *dest = '\0';
}

int main()
{
    char arr[50] = "Marvellous Infosystems";
    char brr[30] = "Logic Building"
```

```
StrCatX(arr,brr);

printf("%s",arr);    // Marvellous Infosystems Logic Building

return 0;

}
```

