```
/* CHAR ARRAYS
    CREATION: char array_name[size];
              char ch[10]'
    ACCESS: ch[index];
    INPUT:
             cin >> ch;
    in char arrays we need not to use the loops for taking input the characters
    one by one.
    NULL CHARACTER: it represents the termination of the string.
                    Null character is represented as '\0'
                    its ascii value is 0
    OUTPUT: cout << ch;
    As like input we can also see ouput just by cout statement.
NOTE ---> char arrays is also passed by refrence.
//#include<iostream>
//using namespace std;
//int main()
//{
       char ch[10];
//
//
       cin >> ch;
       cout << "The One and Only: " << ch << endl;</pre>
//
       cout << "ASCII value is: " << (int)ch[6];</pre>
//
//
       return 0;
//}
/* DELIMITER -> It is a special character which indicates the beginning or end
                of a statement or string.
    Delimiter of cin in char arrays and strings
    new line character --> '\n'
    tab -> '\t'
```

```
space --> '_'
cin.getline()--> when we want to use space and tab while entering the data, we use getline function
                 to take input.
                               cin.getline(array_name, size);
                               cin.getline(ch,100);
       Delimiter of cin.getline() --> '\n'
// Length of a string
#include<iostream>
using namespace std;
int findlength(char ch[], int size)
       int len = 0;
       while(ch[len] != '\0')
               len++;
       return len;
int main()
       char ch[100];
       cin.getline(ch,100);
       int length = findlength(ch,100);
       cout << "Length of string is: " << length;</pre>
       return 0;
       //strlen() is the inbuild function used for finding string length.
}
// REVERSE OF A STRING
```

```
#include<iostream>
#include<cstring>
using namespace std;
void reversestring(char ch[] )
       int i = 0;
       int j = strlen(ch) - 1;
       while(i <= j)</pre>
               swap(ch[i] , ch[j]);
               i++;
               j--;
}
int main()
       char ch[100];
       cin.getline(ch,100);
       reversestring(ch);
    cout << "Printing Reverse: " << ch;</pre>
       return 0;
       //TIME COMPLEXITY: O(n)
       // strrev() is the inbuilt function used for reverse a string.
}
 // UPPER CASE CONVERSION ->
#include<iostream>
#include<string>
using namespace std;
void uppercase(char ch[] )
       int index = 0;
       while(ch[index] != '\0')
```

```
{
               if(ch[index] >= 'a' && ch[index] <= 'z')</pre>
                       ch[index] = ch[index] -'a' + 'A';
               index++;
}
int main()
       char ch[100];
       cin.getline(ch,100);
       uppercase(ch);
       cout << "Upper case: " << ch;</pre>
       // TIME COMPLEXITY: O(n)
       return 0;
}
// REPLACE CHARACTER
#include<iostream>
#include<string>
using namespace std;
void replacechar(char ch[])
    int i = 0;
    while(ch[i] != '\0')
       if(ch[i] == '@')
               ch[i] = ' ';
               i++;
}
int main()
```

```
{
       char ch[100];
       cin.getline(ch,100);
    replacechar(ch);
    cout << "After replacment: " << ch;</pre>
    //TIME COMPLEXITY -> O(n)
       return 0;
}
// CHECK PALINDROME EX- NOON , CIVIC , RADAR ETC.
#include<iostream>
#include<cstring>
using namespace std;
bool palindrome(char ch[])
    int i = 0;
    int j = strlen(ch) - 1;
    while(i <= j)</pre>
       if(ch[i] == ch[j])
               i++;
               else
                       return false;
       return true;
int main()
       char ch[100];
       cin.getline(ch,100);
```

```
bool ispalindrome = palindrome(ch);

if(ispalindrome == 1)
{
    cout << "Palindrome..";
    }
    else
    {
        cout << "Not a Palindrome..";
    }

return 0;
//TIME COMPLEXITY -> O(n)
    return 0;
}
```