

## **ASSIGNMENT-2**

# **Submitted To:**

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#### **Problem on String 1**

Write a program in C to check whether a given string is palindrome or not.

#### **Problem on String 2**

Write a program in C to reverse order of words in a string.

For example:

Input string: I love ULAB

ExpectedOutput: ULAB love I

Input string: Structured Programming Theory

**ExpectedOutput: Theory Programming Structure** 

#### **Problem on Structure 1**

1. Write a C/C++ Program using struct variables to construct a student record list consisting of the following information in each record: student id (integer), student name (character string) and Marks (integer).

Do the following operations:

- a. Store data for ten students and display the data on the screen.
- b. Consider that students Marks and find out student names who get maximum and minimum marks
- Search a record based on student name and display the information content.

If the specified name is not present in the list an error message should be displayed.

```
[Problem on String 1]
```

```
#include <stdio.h>
  H include (straing.h)
  int main ()
     int i, j;
     Char ana [200];
     fgets (area, size of (area), stdin);
     int len;
     len = Strlen (ara)-1;
     for (i=0; i <= 1en; i++)
     {
        it(anaci]!= anaclen-i-1])
           preints ("This is Not Palindrome");
           break;
         else
            preint ("This is palindrome");
            break;
         3
    return 0;
}
```

### [Problem on String -2]

```
#include <stdio.h>
# include (string.h)
int man()
  Char sen[100];
  Char resen[100];
  int len, i, index;
  int wstant;
  int
      wends
  ptcintf ("Enter Your Straing: ");
  gets (sen);
  ien = strclen (sen);
  index =0;
  11 checking of worlds from the end
     of straing
 wstart = len-1;
 wend = len-1;
 While (wstart >0)
 {
     if(sen[wstart] == 11)
        11 Add to the Toverse string
         i= wstart + 1;
```

```
while (i <= wend)
             ksen[index] = sen[i];
             1++3
             index++;
          resentindex++] = 1;
          wend = wstarct -1;
       Wstant - - >
11 Add the las world
for(i=0; i <= wend; i++)
{
   ksen [index] = sen[i];
   index++;
11 Add NULL characheters at the end of
 Toverise string
resen [index] = sen[i]'10';
   preints ("Im Reverse Your String: "1.5"; resen);
   preintf("m");
    return 0;
```

```
Problem on Structure-1
#inleude <stdio.h>
# include Lstraing.h>
struct student.
    chare Name [20];
    int ID;
    int Marks;
};
int main ()
   in+n;
   preintf ("How Many students List You
            want to Record: ");
   seant ("4.d", 8m);
   int is
   struct Student S[n];
   int max = S[0]. Maπks;
   charc mxxname;
   charc miname;
   prcintf("\n");
  for (i=0; i<=n; i++)
   procinty (" Entere Name - "1d: ");
   seam f("01.5", & S[i]. Name);
```

```
preintf("Enter ID-1/d", i);
  seart (".64", &s[i]. ID);
  preintf("Entere Marko - %d",i);
  seanf ("%d", &$[i].Manks);
  ptcin+f("(n");
 for( (i=0; i <=n; i++)
 {
      preintf ("student Name- 1.d: 1.5 mi,i,
                 S[i]. Name);
      preintf(" Student ID-".d: 1.d'm", i, s[i]. ID);
      preintf ("Student Marks -1.d: 1.d\n", i, s[i]. Marks),
 forc(1=0; i <=n; i++)
     if(S[i].Marks > max)
          max = S[i]. Marcks;
          mxname=i;
     }
int main = S[0]. Manks;
in+t;
for (t=0;+ <= n; +++)
    if (S[d]. Marko (min)
```

```
{
        min = S[t]. Manks;
        miname=t's
    }
}
int x, found;
charc sName [50];
scant ("9,5", & sName);
for (x=0; x <=n; x++)
{
    if (Streemp (S[x]. Name, SNean) = = 0)
     {
        preints (" %s In", S[x]. Name);
        proint f("1.d \n", S[x]. ID);
        prcint ("4.d\n", S[x]. Manks);
        breaks
     }
     else
        preints ("Bhagen mile nai kisu");
     }
}
preintf ("Max name is: "65 ln", 5 [mxname]. Name);
preintf ("Min name is: 1.5 m", s[miname]. Name);
returen o;
```