

Assignment

Course Title-Computer Programming 1 lab

Course Code: CSE-1121

Assignment No. – 05
(Official & for FINAL TERM)

Submission date-06.10.2020

Submited to-

Mr. Jamil As-ad

Assistant Lecturer, IIUC Cell: 01626890190 jamilasad1@gmail.com

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

CodeForce-Sheet 4-I

By sorowarmahabub1709vip, contest: Sheet #4 (Strings), problem: (I) Palindrome, Accepted,

```
#include<stdio.h>
int main()
    char s[1000001];
    scanf("%s", &s);
    int count= 0, p, q;
    for(int m=0; s[m]!='\0'; m++)
        count++;
    // printf("%d\n", count); // will remove
    int yes= 0, no= 0;
    for(p=0; p<=(count/2); p++, count--)
        if(s[p]==s[count-1])
            yes++;
        else
            no++:
    // printf("%d\n%d\n", yes, no); //will remove
    if(no>0)
        printf("NO\n");
    else
        printf("YES\n");
    return 0;
}
               Author: Sorowar Mahabub,
11
              studies B.Sc in CSE, IIUC
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A
Department of CSE (Computer Science and Engineering)

CodeForce-Sheet 4-J

94786240 Practice: <u>219856J</u> - GNU Accepted

```
Source
#include<stdio.h>
#include <string.h>
int main()
                 int ip, len, a, b, c, d, e, f, g, h, i, j, k, l, m, n;
int o, p, q, r, ss, t, u, v, w, x, y, z, mm;
char s[10000009];
a=b=c=d=e=f=g=h=i=j=k=l=m=n=o=p=q=r= 0;
ss=t=u=v=w=x=y=z= 0;
got(s)
                  gets(s);
len = strlen(s);
for(ip=0; ip<=(len-1); ip++)</pre>
                                   if(s[ip]=='a') a++;
else if(s[ip]=='b')
                                    else if(s[ip]=='c')
else if(s[ip]=='d')
                                                                                                                             c++;
                                   else if(s[ip]=='d')
else if(s[ip]=='e')
else if(s[ip]=='f')
else if(s[ip]=='h')
else if(s[ip]=='i')
else if(s[ip]=='i')
else if(s[ip]=='k')
else if(s[ip]=='k')
                                                                                                                             e++
f++
                                                                                                                             g++
h++
                                                                                                                              1++
                                                                                                                              j++;
k++;
                                                                                                                              1++
                                    else if(s[ip]=='m')
else if(s[ip]=='n')
                                  else if(s[ip]=='n')
else if(s[ip]=='o')
else if(s[ip]=='p')
else if(s[ip]=='r')
else if(s[ip]=='r')
else if(s[ip]=='r')
else if(s[ip]=='v')
else if(s[ip]=='w')
else if(s[ip]=='w')
else if(s[ip]=='w')
else if(s[ip]=='y')
else if(s[ip]=='z')
else if(s[ip]=='z')
                                                                                                                             n++
                                                                                                                              p++;
                                                                                                                              q++;
                                                                                                                              55++;
                                                                                                                             t++;
                                                                                                                             w++ :
                                                                                                                           x++;
                 }
                  for(mm='a'; mm<='z'; mm++)
printf("%c : %d\n", m, );
                 if(a!=0) printf("a : %d\n"
if(b!=0) printf("b : %d\n"
if(c!=0) printf("c : %d\n"
if(d!=0) printf("d : %d\n"
if(e!=0) printf("d : %d\n"
if(f!=0) printf("f : %d\n"
if(f!=0) printf("f : %d\n"
if(b!=0) printf("h : %d\n"
if(i!=0) printf("h : %d\n"
if(i!=0) printf("i : %d\n"
if(i!=0) printf("j : %d\n"
if(k!=0) printf("k : %d\n"
if(l!=0) printf("l : %d\n"
if(m!=0) printf("m : %d\n"
if(m!=0) printf("m : %d\n"
                                                                                                      : %d\n", a);
: %d\n", b);
: %d\n", c);
                                                                                                                                                13
                  if(m!=0) printf("m : %d\n", m);
if(n!=0) printf("n : %d\n", n);
if(o!=0) printf("o : %d\n", o);
if(o!=0) printf("p : %d\n", p);
if(q!=0) printf("q : %d\n", q);
if(r!=0) printf("r : %d\n", r);
if(ss!=0) printf("s : %d\n", ss
if(t!=0) printf("t : %d\n", t);
if(u!=0) printf("u : %d\n", u);
if(v!=0) printf("v : %d\n", v);
if(w!=0) printf("v : %d\n", v);
                                                                                                                                        , m);
                  if(v!=0) printf("v : %d\n", v);
if(w!=0) printf("w : %d\n", v);
if(x!=0) printf("x : %d\n", x);
if(y!=0) printf("y : %d\n", y);
if(z!=0) printf("z : %d\n", z);
                  return 0;
}
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

CodeForce- Sheet 4- K

By sorowarmahabub1709vip, contest: Sheet #4 (Strings), problem: (K) I Love strings, Accepted

```
#include<stdio.h>
#include<string.h>
int main()
    int N, n;
    scanf("%d\n",&N);
    for(n=0; n<N; n++)
        char S[101],T[101];
        int i, j, s, t;
       // gets(S);
      // gets(T);
        scanf("%s %s\n",S,T);
        for(s=0; S[s]!='\0';)
            5++;
        for(t=0; T[t]!='\0';)
            t++;
        for(i=0; S[i]!='\0' && T[i]!='\0'; i++)
            printf("%c%c", S[i], T[i]);
        if(s<t)
            while(T[s]!='\0')
                printf("%c", T[s]);
                5++;
            }
        else
            while(S[t]!='\0')
                printf("%c", S[t]);
                t++;
        printf("\n");
    return 0;
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

_strlen Function

```
#include <stdio.h>
int _strlen(char p[])
{
int c;
c = 0;
while (p[c] != '\0')
C++;
return c;
}
int main()
char p[100001]= "Sorowar Mahabub";
//p= 15 Characters
//gets(p);
_strlen(p);
printf("Length of the string: %d\n", _strlen(p));
return 0;
}
//
         Author: Sorowar Mahabub,
         studies B.Sc in CSE, IIUC
//
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A
Department of CSE (Computer Science and Engineering)

Page -06

_strrev Function

```
#include<stdio.h>
#include<string.h>
void _strrev(char p[])
{
  int i = 0, temp;
  int j = strlen(p) - 1;
  while (i < j) {
    temp = p[i];
    p[i] = p[j];
    p[j] = temp;
    i++;
    j--;
int main() {
```

```
char p[100001]= "bubahaM raworoS";
int i, j = 0;
//gets(p);
printf("Before reverse: ");
puts(p);
_strrev(p);
printf("After reverse: %s\n", p);
return (0);
}
// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

_strcat Function

```
#include <stdio.h>

void _strcat(char p[], char q[])
{
   int c, d;
   c = 0;
   while (p[c] != '\0')
   {
    c++;
```

```
}
  d = 0;
  while (q[d] != '\0')
  {
    p[c] = q[d];
    d++;
    C++;
  p[c] = '\0';
}
int main()
{
  char p[100001]= "Sorowar";
  char q[100001]= "Mahabub";
  //gets(p);
  //gets(q);
  _strcat(p, q);
  // printf("%s\n", p);
```

```
puts(p);

return 0;
}

// Author: Sorowar Mahabub,
// studies B.Sc in CSE, IIUC
```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A