Assignment no 18

1. #include<stdio.h>

int len(char str[]){

int d=0,i;

for(i=0;str[i];i++){

if(str[i]==' '){

d++;

}

}

return i-d;

}

int main(){

char str[20]="jaiprakas juhota";

printf("the length of the string is %d",len(str));

return 0;

}

2. #include<stdio.h>

void rev(char str[]){

int c=0,i,d;

while(str[c]!='\n'){

c++;

}

d=c;

if(c%2){

for(i=c/2-1;i>=0;i--){

str[d]=str[i];

d++;

}

}

else{

for(i=0;i<c/2;i++){

str[d]=str[i];

d++;

}

}

d=d-1;

for(i=0;i<c;i++){

if(c%2){

if(i>c/2){

str[i]=str[c/2+i];

}

else{

str[i]=str[c-1-i];

}

}

else{

if(i>=c/2){

str[i]=str[d];

d--;

}

else{

str[i]=str[c-1-i];

}

}

}

for(i=0;i<c;i++){

printf("%c",str[i]);

}

}

int main(){

char str[40];

printf("Enter any string : ");

fgets(str,40,stdin);

rev(str);

return 0;

}

3. #include<stdio.h>

#include<string.h>

void check(int value,char s1[],char s2[]){

if(value=0){

printf("%s is equal to %s",s1,s2);

}

else if(value>0){

printf("%s is greater than %s",s1,s2);

}

else{

printf("%s is greater than %s",s2,s1);

}

}

int main(){

int value;

char s1[20],s2[20];

printf("Enter first string : ");

fgets(s1,20,stdin);

printf("Enter second string : ");

fgets(s2,20,stdin);

value=strcmp(s1,s2);

check(value,s1,s2);

return 0;

}

4. #include<stdio.h>

void convert(char s[]){

int c=0;

while(s[c]!='\n'){

if(s[c]==32){

s[c]=s[c];

c++;

}

else{

s[c]=s[c]-32;

c++;

}

}

puts(s);

}

int main(){

int c=0;

char s[40];

printf("Enter any string in lower case : ");

fgets(s,40,stdin);

convert(s);

return 0;

}

5. #include<stdio.h>

void convert(char s[]){

int c=0;

while(s[c]!='\n'){

if(s[c]==32){

s[c]=s[c];

c++;

}

else{

s[c]=s[c]+32;

c++;

}

}

puts(s);

}

int main(){

int c=0;

char s[40];

printf("Enter any string in upper case : ");

fgets(s,40,stdin);

convert(s);

return 0;

}

6. #include<stdio.h>

void check(char s[],int c){

int ca=0,cn=0;

for(int i=0;i<c;i++){

if(s[i]>='0'&&s[i]<='9'){

cn++;

}

else if((s[i]>='a'&&s[i]<='z')||(s[i]>='A'&&s[i]>='Z')){

ca++;

}

}

if(ca&&cn>=1){

printf("the given string is alphanumeric");

}

else{

printf("the given string is not alphanumeric");

}

}

int main(){

int c=0;

char s[40];

printf("Enter a string : ");

fgets(s,40,stdin);

while(s[c]!='\n'){

c++;

}

check(s,c);

return 0;

}

7. #include<stdio.h>

void check(char s[],int c){

int i;

for(i=0;i<c;i++){

if(s[c-1-i]!=s[i]){

break;

}

}

if(i==c){

printf("the string is palindrome");

}

else{

printf("the string is not palindrome");

}

}

int main(){

int c=0;

char s[30];

printf("Enter any string : ");

fgets(s,30,stdin);

while(s[c]!='\n'){

c++;

}

check(s,c);

return 0;

}

8.#include<stdio.h>

int counter(char s[]){

int c=0;

while(s[c]!='\n'){

c++;

}

return c;

}

int main(){

char s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

printf("%d words are there in the given string",counter(s));

return 0;

}

9. #include<stdio.h>

void reverse(char str2[],char str[],int n){

int i,j,c=0;

for(i=n;i>=0;i--){

if(str2[i]==' '){

for(j=i+1;j<n+1;j++){

if(str2[j]==' '){

break;

}

str[c]=str2[j];

c++;

}

str[c]=' ';

c++;

}

}

for(i=0;i<n;i++){

printf("%c",str[i]);

}

}

int main(){

int i,n=0;

char str[500]="MySirG Education Services Private Limited",str2[500];

while(str[n]){

n++;

}

str2[0]=' ';

for(i=0;i<n;i++){

str2[i+1]=str[i];

}

reverse(str2,str,n);

return 0;

}

10. #include<stdio.h>

void counter(char s[]){

int c=0,count,j,i;

char temp;

while(s[c]!='\n'){

c++;

}

for(i=0;i<c-1;i++){

count=0;

for(j=i+1;j<c;j++){

if(s[i]==s[j]){

if(s[i]==temp){

break;

}

count++;

if(count==1){

break;

}

}

}

if(count==1){

temp=s[i];

printf("%c ",s[i]);

}

}

}

int main(){

char s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

counter(s);

return 0;

}