Assignment no 17

1. #include<stdio.h>

int main(){

int x;

x=printf("printf");

printf("%d",x);

return 0;

}

2. #include<stdio.h>

int main(){

int count=0,i;

char c,s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

printf("Enter the character to find occurance : ");

scanf("%c",&c);

for(i=0;i<30;i++){

if(c==s[i]){

count++;

}

}

printf("%c has occured %d times",c,count);

return 0;

}

3. #include<stdio.h>

int main(){

int count=0,i=0,x,c=0;

char s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

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

c++;

}

while(i<c){

switch(s[i]){

case 'a':count++;

break;

case 'A':count++;

break;

case 'e':count++;

break;

case 'E':count++;

break;

case 'i':count++;

break;

case 'I':count++;

break;

case 'o':count++;

break;

case 'O':count++;

break;

case 'u':count++;

break;

case 'U':count++;

break;

}

i++;

}

printf("There are %d vowels in this string",count);

return 0;

}

4. #include<stdio.h>

int main(){

int c=0;

char s[40];

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

fgets(s,40,stdin);

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

if(s[c]==32){

s[c]=s[c];

c++;

}

else{

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

c++;

}

}

puts(s);

return 0;

}

5. #include<stdio.h>

int main(){

int c=0;

char s[40];

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

fgets(s,40,stdin);

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

if(s[c]==32){

s[c]=s[c];

c++;

}

else{

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

c++;

}

}

puts(s);

return 0;

}

6. #include<stdio.h>

int main(){

int c=0,i;

char s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

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

c++;

}

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

s[i+(c/2)]=s[i];

}

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

if(i<c/2){

s[i]=s[c-1+c/2-i];

}

else{

s[i]=s[(c-1)-i];

}

}

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

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

}

return 0;

}

7. #include<stdio.h>

int main(){

int c=0,i,count\_alpha=0,count\_digi=0,count\_spe=0;

char s[40];

printf("Enter any string : ");

fgets(s,40,stdin);

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

c++;

}

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

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

count\_alpha++;

}

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

count\_digi++;

}

else{

count\_spe++;

}

}

printf("there are %d aplhabets,%d digits,%d special character/s in the sentence.",count\_alpha,count\_digi,count\_spe);

return 0;

}

8. #include<stdio.h>

int main(){

char s[40],n[40],c=0,i;

printf("Enter the string : ");

fgets(s,40,stdin);

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

c++;

}

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

n[i]=s[i];

}

printf("After copying the elements of s array in n array \n");

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

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

}

return 0;

}

9. #include<stdio.h>

int main(){

int j,i,temp,c=0;

char s[40],n[40];

printf("Enter any string : ");

fgets(s,40,stdin);

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

n[c]=s[c];

if(n[c]>='A'&&n[c]<='Z'){

n[c]=n[c]+32;

}

c++;

}

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

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

if(n[i]>n[j]){

temp=n[i];

n[i]=n[j];

n[j]=temp;

}

}

}

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

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

}

return 0;

}

10. #include<stdio.h>

int main(){

int c=0,count,i,j,temp;

char str[40];

printf("Enter any string : ");

fgets(str,40,stdin);

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

c++;

}

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

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

if(str[i]>str[j]){

temp=str[i];

str[i]=str[j];

str[j]=temp;

}

}

}

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

count=0;

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

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

count++;

}

}

printf("%c %d\n",str[j],count);

if(count>1){

j=j+count-1;

}

}

return 0;

}