# read from a terminal using scanf function and print using printf

function. #include<stdio.h> int main(){

char name[20]; printf("Enter name: "); scanf("%s", name);

printf("Your name is %s.", name); return 0;

}

# OUTPUT:

Enter name: Ankeeta kumari

Your name is Ankeeta Kumari

# read a lines of text from a terminal using fgets function and print

using puts function. #include<stdio.h> int main(){

char name[20]; printf("Enter name: ");

fgets(name,sizeof(name),stdin); printf("name: ");

puts(name); return 0;

}

# OUTPUT:

Enter name: ankeeta kumari name: ankeeta kumari

# convert

* 1. Upper case to Lower case
  2. Lower case to Upper case
  3. Toggle case
  4. Sentence case

//upper case to lower case #include <stdio.h> #include <string.h>

int main(){ char s[100]; int i;

printf("Enter a string : "); gets(s);

for (i = 0; s[i]!='\0'; i++) {

if(s[i] >= 'A' && s[i] <= 'Z') { s[i] = s[i] + 32;

}

}

printf("\nString in Lower Case = %s", s); return 0;

}

# OUTPUT:

enter a string : APPLE

String in Lower Case = apple

//UPPER CASE

#include <stdio.h> #include <string.h> int main() {

char s[100]; int i;

printf("Enter a string : "); gets(s);

for (i = 0; s[i]!='\0'; i++) {

if(s[i] >= 'a' && s[i] <= 'z') { s[i] = s[i] - 32;

}

}

printf("\nString in Upper Case = %s", s); return 0;

}

# OUTPUT:

Enter a string : apple

String in Upper Case = Apple

//TOGGLE CASE

#include <stdio.h> #include <string.h> int main(){

char Str[100]; int i;

printf("Enter any string: "); gets(Str);

for (i = 0; Str[i]!='\0'; i++){

if(Str[i] >= 'a' && Str[i] <= 'z'){ Str[i] = Str[i] - 32;

}

else if(Str[i] >= 'A' && Str[i] <= 'Z'){ Str[i] = Str[i] + 32;

}

}

printf("\n The Given String after toggle case = %s", Str); return 0;

}

# OUTPUT:

Enter any string: HeLlO

The Given String after toggle case = hElLo

//SENTENCE CASE

#include <stdio.h> #include <ctype.h>

int main(){ char str[100];

printf("Enter a string : "); gets(str);

str[0] = toupper(str[0]); printf("The string is: %s.",str); return 0;

}

# OUTPUT:

Enter a string : hello programmers The string is: Hello programmers.

# perform String Concatenation (With and Without String Handling

Functions).

//CONCATE WITHOUT FUNC

#include <stdio.h> int main() {

char s1[100] = "Hello ", s2[] = "World"; int length, j;

length = 0;

while (s1[length] != '\0') {

++length;

}

for (j = 0; s2[j] != '\0'; ++j, ++length) {

s1[length] = s2[j];

}

s1[length] = '\0';

printf("After concatenation: "); puts(s1);

return 0;

}

# OUTPUT:

After concatenation: Hello World

//WITH FUNC

#include <stdio.h> #include <string.h> int main(){

char str[100], str2[100]; printf("Enter the first string\n"); gets(str);

printf("Enter the second string\n"); gets(str2);

strcat(str,str2);

printf("String obtained on concatenation is %s\n",str); return 0;

}

# OUTPUT:

Enter the first string

HELLO

Enter the second string WORLD

String obtained on concatenation is HELLOWORLD

# perform String Reversal (With and Without String Handling Functions).

//WITHOUT FUNC

#include<stdio.h> #include<string.h> int main() {

char str[100], temp; int i, j = 0;

printf("Enter the string: "); gets(str);

i = 0;

j = strlen(str) - 1; while (i < j) { temp = str[i]; str[i] = str[j]; str[j] = temp; i++;

j--;

}

printf("\nReverse string is :%s", str);

return 0;

}

# OUTPUT:

Enter the string: HELLO HI Reverse string is :IH OLLEH

//WITH FUNC

#include <stdio.h> #include <string.h> int main()

{

char s[100];

printf("Enter a string to reverse "); gets(s);

strrev(s);

printf("Reverse of the string: %s\n", s); return 0;

}

# OUTPUT:

Enter the string: HI BYE Reverse string is :EYB IH

# perform Substring Extraction (With and Without String Handling

Functions).

//WITHOUT FUNC

#include <stdio.h>

int main(){

char str[100], sstr[100]; int pos, l, c = 0;

printf("Input the string : "); fgets(str, sizeof str, stdin);

printf("Input the position to start extraction :"); scanf("%d", &pos);

printf("Input the length of substring :"); scanf("%d", &l);

while (c < l)

{

sstr[c] = str[pos+c-1]; c++;

}

sstr[c] = '\0'; printf(sstr);

}

# OUTPUT:

Input the string : HELLOWORLD

Input the position to start extraction :5 Input the length of substring :6 OWORLD

# copy one string into another and count the no of elements copied.

(With and Without String Handling Functions).

#include<stdio.h>

//#define N 10 int main()

{

char str1[80], str2[80]; int i;

printf("Input a string: "); scanf("%s", str2); for(i=0; str2[i]!='\0'; i++) str1[i]=str2[i];

str1[i]='\0';

printf("\n");

printf("Original string: %s", str1); printf("\nNumber of characters = %d\n", i); return 0;

}

# OUTPUT:

Input a string: Shalinee Original string: Shalinee Number of characters = 8

//WITH FUNC

#include<stdio.h> #include<string.h> int main(){

char str1[100]; char str2[100]; int i;

printf("Enter the string: "); gets(str2); strcpy(str1,str2);

printf("\nThe copied string is: %s", str1); for(i=0; str2[i]!='\0'; i++)

str1[i]=str2[i];

str1[i]='\0';

printf("\nNumber of characters = %d\n", i); return 0;

}

# OUTPUT:

Enter the string: Shalinee The copied string is: Shalinee Number of characters = 8

# read a string and prints if it is a palindrome or not.

#include <stdio.h> int main()

{

char s[1000]; int i,n,c=0;

printf("Enter the string : ");

gets(s); n=strlen(s); for(i=0;i<n/2;i++)

{

if(s[i]==s[n-i-1]) c++;

}

if(c==i)

printf("string is palindrome"); else

printf("string is not palindrome"); return 0;

}

# OUTPUT:

Enter the string : wow string is palindrome

# read a line of text and count all occurrences of particular word.

#include <stdio.h> int main()

{

char s[1000],w[1000];

int n,a[1000],i,j,k=0,l,found=0,t=0; printf("Enter the string : ");

gets(s);

printf("Enter word to be searched: "); gets(w);

for(i=0;s[i];i++)

{

if(s[i]==' ')

{

a[k++]=i;

}

}

a[k++]=i; j=0;

for(i=0;i<k;i++)

{

n=a[i]-j; if(n==strlen(w))

{ t=0;

for(l=0;w[l];l++)

{

if(s[l+j]==w[l])

{ t++;

}

}

if(t==strlen(w))

{

found++;

}

}

j=a[i]+1;

}

printf("word '%s' is occurred count=%d ",w,found);

return 0;

}

# OUTPUT:

Enter the string : The crazy man is crazy about her Enter word to be searched: crazy

word 'crazy' is occurred count=2

# read a string and rewrite it in the alphabetical order.

#include <stdio.h> #include <string.h> int main ()

{

char string[100]; printf("Enter the string : "); scanf("%s",string);

char temp; int i, j;

int n = strlen(string); for (i = 0; i < n-1; i++) { for (j = i+1; j < n; j++) { if (string[i] > string[j]) { temp = string[i]; string[i] = string[j]; string[j] = temp;

}

}

}

printf("The sorted string is : %s", string); return 0;

}

# OUTPUT:

Enter the string : APPLE The sorted string is : AELPP

# Print the Words Ending with Letter S

#include <stdio.h> #include <string.h> char str[100];

void main()

{

int x, t, j, len; printf("Enter a string : "); scanf("%[^\n]s", str);

len = strlen(str); str[len] = ' ';

for (t = 0, x = 0; x < strlen(str); x++)

{

if ((str[x] == ' ') && (str[x - 1] == 's'))

{

for (j = t; j < x; j++) printf("%c", str[j]); t = x + 1; printf("\n");

}

else

{

if (str[x] == ' ')

{

t = x + 1;

}

}

}

}

# OUTPUT:

Enter a string : The class is full of students class

is students

# Delete All Repeated Words in the line of text.

#include <stdio.h> #include <stdlib.h> #include <string.h> int main ()

{

char str[100], word[100], twoD[10][30]; int i = 0, j = 0, k = 0, len1 = 0, len2 = 0, l = 0; printf ("Enter the string:");

gets (str);

for (i = 0; str[i] != '\0'; i++)

{

if (str[i] == ' ')

{

twoD[k][j] = '\0'; k ++;

j = 0;

}

else

{

twoD[k][j] = str[i]; j ++;

}

}

twoD[k][j] = '\0'; j = 0;

for (i = 0; i < k; i++)

{

int present = 0;

for (l = 1; l < k + 1; l++)

{

if (twoD[l][j] == '\0' || l == i)

{

continue;

}

if (strcmp (twoD[i], twoD[l]) == 0) { twoD[l][j] = '\0';

present = present + 1;

}

}

}

j = 0;

for (i = 0; i < k + 1; i++)

{

if (twoD[i][j] == '\0') continue;

else

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

}

printf ("\n"); return 0;

}

# OUTPUT:

Enter the string:apple orange banana apple orange apple orange banana