Basic – Codes

1. FACTORIAL PROGRAM

#include<stdio.h>

int main ( ) {

int i, n, f=1;

scanf(“%d”, &n);

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

f=f\*i;

}

Printf(“%d”, f);

}

1. REVERSE OF A STRING

#include<stdio.h>

#include<string.h>

int main ( ) {

int j=0;

char s[10] = “Saiteja”;

char s1[10] = “”;

for(int i = strlen(s)-1; i>=0 ; i--) {

s1[j] = s1[j] + s[i];

j++;

}

Printf(“%s”, s1);

}

1. PRIME OR NOT

#include<stdio.h>

int main ( ) {

int i, n, flag=0;

scanf(“%d”, &n);

if( n==0 || n==1 ) {

flag=1;

for( i=2; i<=n/2; ++i ){

if( n % i == 0 ) {

flag =1;

break;

}

}

if( flag == 0 )

printf(“%d is a prime number.”, n);

else

printf(“%d is not a prime number.”, n);

}

1. SUM OF ELEMENTS OF AN ARRAY

#include<stdio.h>

int main ( ) {

int i, n, a[10],c=0;

scanf(“%d”, &n);

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

scanf(“%d”, &a[ i ]);

}

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

c=c+a[ i ];

}

Printf(“%d”, c);

}

1. FIBONACCI SERIES

#include<stdio.h>

int main ( ) {

int i,f1=0, f2=1, n, f3;

scanf(“%d”, &n);

Printf(“%d %d ”, f1, f2);

for(i=2; i<n; i++) {

f3=f1+f2;

Printf(“%d”, f3);

f1=f2;

f2=f3;

}

}

1. REMOVE DUPLICATES FOR THE STRING

A=input(“enter the string:”)

B=””

for i in A:

if i not in B:

B=B+i

Print(B)

1. CAPTIALIZE FIRST AND LAST LETTER OF A STRING

def c\_f\_l( a ):

a=a.title( )

result=” “

for word in a.split( ):

result += word[:-1] + word[-1].upper( )+” “

return result[:-1]

print(c\_f\_l(“sai teja reddy”))

1. BUBBLE SORT

def bs(arr):

n=len(arr)

swapped=False

for i in range(n-1):

for j in range(0,n-i-1):

swapped=True

arr[j],arr[j+1]=arr[j+1],arr[j]

if not swapped:

return

arr=[1,4,2,5,3,6,8,7]

bs(arr)

for i in range(len(arr)):

print(arr[i],end=” “)

1. PALINDROME OR NOT

A=input(“enter a string or number:”)

B=A[ : :-1 ]

if A==B:

print(“palindrome”)

else:

print(“not palindrome”)

1. FIND EXTRA CHARACTER FROM STRINGS

def fec(strA, strB):

m1={ }

for i in strB:

if i in m1:

m1[ i ] += 1

else:

m1[ i ]=1

for i in strA:

m1[ i ]-=1

for h1 in m1:

if m1[h1] == 1:

return h1

if \_\_name == “ \_\_main\_\_ “:

strA=” abcd ”

strB=” abcda “

print(fec(strA, strB)

1. HOW MANY TIMES A SPECIFIC CHARACTER HAS OCCURRED IN A STRING

a=input("enter string:")

b=input("enter charater to search:")

c=0

for i in range(0,len(a)):

if b in a[i]:

c+=1

print(c)

1. POSITION OF A CHARACTER IN A GIVEN STRING

a=input("enter srting:")

b=input("enter charater to search:")

for i in range(0,len(a)):

if b in a[i]:

print(i)

1. WEATHER THE GIVEN STRING IS HAVING A SUB-STRING

GIVEN BELOW

def issubstring(a,b):

if b in a:

return 1

return 0

a=input("enter any srting:")

b=input("enter sub string:")

c=issubstring(a,b)

if c==0:

print(b +" sub string "+" is not present in string "+a)

else:

print(b +" sub string "+" is present in string "+a)