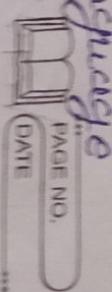


Introduction to Programming Language



Unit 2

(2) First demo program

// This is first demo of C language
/* This program is

BCA

Semester 1st

```
#include<stdio.h>  
#include<conio.h>
```

```
void main()
```

```
5
```

```
class C;
```

```
printf("Hello all");
```

```
printf("Name is Kermani. My Science in college);
```

```
printf ("I am student of BCA.....");
```

```
printf ("In I am student of BCA It is");
```

```
getch();
```

```
200 to hub 1200 1200 1200 1200 1200
```

```
Output
```

```
hello Hello and welcome to our class
```

```
Kermani 200 to hub 1200 1200 1200 1200 1200
```

```
Science 1200 1200 1200 1200 1200
```

```
College 1200 1200 1200 1200 1200
```

```
I am student of BCA It is
```

```
BCA . . . . .
```

```
of
```

Variable Declaration

(2) Variable Argument
If this is demo then expect this is develo
developed by Mukundan prilem

Ans is Demo This is created on
x-09-2020 of
C

Program Variable project

```
#include <stdio.h>
#include <conio.h>
Void Main C
{
    int age; // 4.d //datatype variable-name
    char surname; // 4.c
    char . First-name E25 = "British"; // 4.s
    Surname -> s[5];
    age = 25;
    class();
}

printf ("I am student of BCA semster-1.\n");
printf ("My name is %s\n", first);
printf ("\n He told \u2018 you are the best \u2019 ");
printf ("\n He \u2019 I will throw \u2019 tell \u2019 It you \u2019 ");
printf ("\n my AGE is %d ", age);
printf ("\n my AGE is %d , age);
printf ("In my surname is %c , surname);
printf ("In my first NAME = %s , first_name);
printf ("\\n\\n*** * * * * ");
printf ("Name = %s \u2019 t SURNAME = %c \u2019 And
my age = %d ", first_name, surname,
getch();
```



Output

I am student of BCA sem -1!
My name is = Pratim
He told "you are the best"
Hello How are you
my age is = 25
My age is = 29
My surname is = Mukherjee
My first name = Pratim =

* * * * *

Name = Pratim Surname = Mukherjee

My Age = 29

Age = 29

[3]

MARK SHEET

1* this is about marksheets of students
this is created at 8-8-2020 by
Pratim
#include <stdio.h>
Void main()
{
char stdname [20] = "Pratim";
char stdsurname [20] = "mukherjee";
int Roll No = 2;
int C long = 80;
int funda = 80;
int html = 75;

```
class C:
    def __init__(self, name, stdname, stdnum):
        self.name = name
        self.stdname = stdname
        self.stdnum = stdnum

    def print_in(self):
        print("NAME = " + self.name)
        print("ROLL NO = " + str(self.stdnum))
        print("MARKS FOR * * *")
        print("IN COMM SKILL " + str(self.stdnum))
        print("IN LANG " + str(self.stdnum))
        print("IN FUNDAMENTALS OF COMPUTER " + str(self.stdnum))

    def calculate_total(self):
        total = int(self.lang) + int(self.fundamentals) + int(self.commskill)
        return total
```

Font part

14

* * * * * MARK SHEET *

NAME = JACK WENGER

MARKS For * * *

C LANCUACKE = 80

$$E_{WPA} = \epsilon_0$$

And TOTAL is = 305

卷之三

卷之二十一

卷之三

WILHELM LÖSCH

```
include <stdio.h>
#include <conio.h>
void Main()
```

三

~~/* this is format specifier demo 10-9-2001 */~~

#Inchdeutsch

```
#include<conio.h>
```

Void Main()

102f or Gurdwara and where used
2021, 2021 Gurdwara



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S
float per;
per = 65.567;
printf("PERCENTAGE = %.f", per);
printf("\n percentage : %.2f", per);
getch();

3

out RH

PERCENTAGE = 65.567001
percentage : 65.56

[5]

Operators

1 This is demo of operators 17-9-2020 #include <stdio.h>
#include <conio.h>
Void main

2
int a=10, b=10;
int b=5;
int sum;
sum = a+b;
cout << sum;



else
;

Print ("ADDITION IS = ", a + b);
Print ("SUBTRACTION = ", a - b);
Print ("MULTIPLICATION = ", a * b);
Print ("DIVISION IS = ", a / b);

Scratch;

y

↓
Output

ADDITION IS = 15 SUBTRACTION = 5
MULTIPLICATION : 50 DIVISION IS = 2

[6]

Flowcharts

Name

Symbols

Use

Flow

Terminal

Start, Stop and Halt

oval

Parallelogram

Process

(2)

Input/Output

parallelogram

(3)

Processing

arithmetic instructions.

Processes as adding,
subtracting, multiplication
and division (+, -, *, /)

box



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(4)

Decision

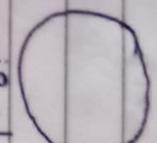


yes / no or true/false

Diamond

(5)

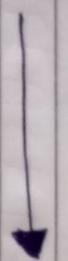
connectors



circle

(6)

Flow lines

control and relationship
among different symbols

*

#include <stdio.h>

#include <conio.h>

Void main()

{ // Start

int sum1; // process

int sum2; // process

int sum; // process

num1 = 10; // input

num2 = 5; // input

sum = num1 + sum2 // process

printf ("Addition is : %d", sum); // output

getch(); // stop

// Other about

// Other about

// Other about

// Other about

Example: Draw a flowchart to input two numbers from user and display the sum of two numbers.

Start

Declare variable num1, num2, sum

Input num1, num2

Read num1, num2

Sum = num1 + num2

Display sum

Output sum

Stop

Scanf

Include stdio.h

#include <stdio.h>

#include <conio.h>

Void Main()

S
int a;
int b;

```
printf ("Enter value for A\n");
scanf ("%d", &a);
printf ("\n Enter value for B\n");
scanf ("%d", &b);
printf ("\n Your entered value for A is: %d",
       a);
printf ("\n Your entered value for B is: %d",
       b);
```

Output

```
10
25
Your entered value for A is 10
Your entered value for B is 25
Sum of A+B = 35
```

Enter value for A
25
Enter value for B from you is 15

Enter a value for B

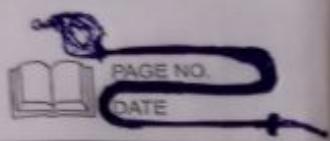
10

Your entered value for B is 10

sum of A+B = 25

sum of A-B = 5 or 10

[8] Pre Processor Demo as CPP.



// Pre processor demo

```
#include <stdio.h>
#include <conio.h>
#define PI 3.1425 //Pre Processor
```

Void main()

```
    {
        float a,pi;
        clrscr();
        printf ("Enter Radius");
        scanf ("%f",&r);
        a=PI *r*r;
        printf ("In Area = %f",a);
        getch();
    }
```

Output

```
Enter Radius 2
Area = 12.56
```

[9] If

// IF DEMO

```
#include <stdio.h>
#include <conio.h>
Void main()
```

```
    {
        int test = 2;
        clrscr();
    }
```

```
if (test < 10)
```

5

```
printf (" i am in if body and value of test  
is %d ", test);
```

```
printf ("\n i am in if");
```

3

```
printf ("\n i am in if out of if and  
value of test is %d ", test);
```

```
getch();
```

3

OUTPUT

```
i am in if body and value of test is 2  
i am in if  
i am out of if and value of test is 2
```

[2] if else demo

```
// if else demo
```

```
#include <conio.h>
```

```
#include <stdio.h>
```

```
Void main()
```

5

```
int test=5;
```

```
clrscr();
```

```
if (test < 10)
```

5

```
printf ("\n i am in if");
```

3



else

{

printf ("In i am in else");

{

printf ("In i am in void main");

getch();

{

Output

i am in if

i am in void main

[3] if else (Age eligible)

//if else demo

#include <conio.h>

#include <stdio.h>

Void main()

{

int age;

clrscr();

printf ("In ENTER YOUR AGE :");

scanf ("%d", &age);

if (age >= 18)

{

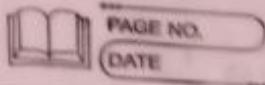
printf ("In you are eligible for VOTING");

{

else

③ Output

ENTER Your AGE: 18
Your eligible for VOTER ID
I AM in void main



5

printf ("\\n You are not eligible for VOTER
ID");

3

printf ("\\n i am in void main");

- getch();

3

[4] if else (if number)

// if else demo

#include <conio.h>

#include <stdio.h>

void main ()

5

int num;

clrscr();

printf ("\\n ENTER ANY NUMBER: ");

scanf ("%d ", &num);

if (num % 2 == 0)

5

printf ("\\n THIS IS EVEN NUMBER and it is %d",
num);

3

else

5 printf ("\\n This is ODD NUMBER");

3

getch();

3

Output

ENTER ANY NUMBER: 16

THIS IS EVEN NUMBER and it is 16

(5)

// if with && operator demo

```
#include <conio.h>
#include <stdio.h>
#include <conio.h>
void main()
{
    clrscr();
    int age;
    printf("In ENTER AGE");
    scanf("%d", &age);
    if (age >= 21 && age <= 60)
        printf("In UR Eligible for D licence");
    printf("In Your age is %d", age);
}
else
{
    printf("In UR Not Eligible for D
           licence");
}
printf("\n");
getch();
```

Output

ENTER AGE 12
UR Not Eligible for D licence

[6] // if with || operator demo

```
#include <conio.h>
#include <stdio.h>
void main()
```

5

```
int age;
clrscr();
printf ("In ENTER AGE");
scanf ("%d", &age);
if (age>=18 || age<=60) //AD || BZ //I
5
```

```
printf ("In U R Eligible for D licence");
printf ("In Your age is %d", age);
```

3

else

5

```
printf ("In U R Not Eligible for D licence")
```

3

```
printf ("In");
getch();
```

OUTPUT

ENTER AGE 65

U R Eligible for D licence

Your age is 65

[7] if and else and || operator example

```
#include <conio.h>
```

```
#include <stdio.h>
```

```
Void main()
```

5

```
int a;
```

```
clrscr();
```



```
printf("In ENTER 0 OR 1: ");
scanf("%d", &a);
if (a==2 || a==0)
```

5

```
printf("In I am in IF and You Entered
      %d", a);
```

3

else

5

```
printf("In I am in Else and U
      Entered %d", a);
```

3

```
printf("\n");
getch();
```

Output

ENTER 0 OR 1 3

I am in Else and U Entered 3

[8] ~~if...else ladder~~
if ... else if ... else

// if else if else demo

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
Void main()
```

5

```
int dno;
```

```
clrscr();
```

```
printf("In ENTER Day Number");  
scanf("%d", & dno);
```

```
if (dno==1)
```

```
{  
    printf("In Mon");
```

```
}  
else if (dno==2)
```

```
{  
    printf("In Tue");
```

```
}  
else if (dno==3)
```

```
{  
    printf("In Wed");
```

```
}  
else if (dno==4)
```

```
{  
    printf("In Thu");
```

```
}  
else if (dno==5)
```

```
{  
    printf("In Fri");
```

```
}  
else if (dno==6)
```

```
{  
    printf("In Sat");
```

```
}  
else if (dno==7)
```

```
{  
    printf("In Sun");
```

```
}
```

~~else~~



else

{

printf("In PLZ enter proper day number
between 1 to 7");

}

printf("\n");

getch();

Output

ENTER day Number : 7

Sun

[9] Nested if... else

//Nested if... else demo

#include<stdio.h>

#include<conio.h>

Void Main()

{

int number1, number2, clrscr();
printf("Enter first integers: ");
scanf("%d", &number1);
printf("Enter second integers: ");
scanf("%d", &number2);

if (number1 >= number2)

{

if (number1 == number2)

{

printf("Result : %d = %d", number1, number2);

}



```
else
{
    printf ("Result: %d > %d , number2 , number2);
}
else
{
    printf ("Result: %d < %d ", number2 , number2);
}
getch();
```

Output

```
Enter first integers: 15
Enter second integers: 20
Result: 15 > 20
```

[10]

Switch... case

```
#include <stdio.h>
#include <conio.h>
Void Main()
{
    int x;
    clrscr();
    printf ("Enter value for x : ");
    scanf ("%d", &x);
    switch (x)
    {
        Case 1:
            printf ("I am 2");
            break;
```

```
case 2:  
    printf("i am 2");  
    break;  
case 3:  
    printf("i am 3");  
    break;  
default:  
    printf("i am in default case");  
    break;  
} getch();
```

3

Output

Enter value for x: 5
i am in default case

[1d(i)] switch... single character...

```
#include <stdio.h>  
#include <conio.h>  
Void main()  
{  
    char x;  
    clrscr();  
    printf("Enter gender: ");  
    scanf(".-c",&x);  
    switch  
    switch(x)
```

5



```
case 'm':  
    printf ("MALE");  
    break;  
case 'f':  
    printf ("FEMALE");  
    break;  
default:  
    printf ("PLZ enter m or f");  
    break;  
}  
getch();  
}  
⇒ Output  
Enter gender m  
MALE
```

(Q2) switch... single character and scanf use

```
#include <stdio.h>  
#include <conio.h>  
void main()  
{  
    char x;  
    int age;  
    clrscr();  
    printf ("Enter gender:");  
    scanf ("%c", &x);  
    switch (x)  
    {  
        case 'm':  
            printf ("MALE\n");  
        case 'f':  
            printf ("FEMALE\n");  
        default:  
            printf ("PLZ enter m or f");  
    }  
}
```



```
printf ("Enter age");
scanf ("%d", &age);
printf ("In your age is %d", age);
break;

case 'f';
printf ("FEMALE");
break;
default:
printf ("Plz enter m or f");
break;
```

3

getch();

3

Output

Enter gender m

MALE

Enter age 18

Your age is 18

Ternary Operator

```
#include <stdio.h>
#include <conio.h>
Void main()
{
```

```
int x,y,max;
clrscr();
```



```
printf ("Enter value for x:");  
scanf ("%d", &x);  
printf ("Enter value for y:");  
scanf ("%d", &y);
```

max = (x > y) ? x : y; // 2

```
/* if (x > y)
```

 {

 max = x;

 }

else

 {

 max = y;

 }

```
printf ("x=%d, y=%d and max is %d", x, y, max);  
getch();
```

}

Output

Enter value for x

50

Enter value for y

20

x=50, y=20 and max is 50

for and while Loop

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Example:-

for loop

// for Loop Use

#include <stdio.h>

#include <conio.h>

Void main ()

S

int i;

clrscr ();

for (i=1;i<=20;i=i+1)

S

printf ("%d\n", i);

3

getch();

3

Output

1

2

3

4

5

6

7

8

9

10

[12] i example (for loop)

#include <stdio.h>

#include <conio.h>

Void main ()

5

```

int i = 2;
clrscr();
for (; i <= 10; i++)
{
    printf(" hello roll number = %d\n", i);
    getch();
}
    
```

Output

2
3
4
5
6
7
8
9
10

[13] Nested for Loop in C

```

#include <stdio.h>
int main()
{
    for (int i = 0; i < 2; i++)
    {
        for (int j = 0; j < 4; j++)
        {
            printf("%d, %d\n", i, j);
        }
    }
    return 0;
}
    
```

Output

Output

0,0
0,1
0,2
0,3
1,0
2,1
3,2
4,3

[14]

```
//nested for loop demo
#include<stdio.h>
#include<conio.h>
void main()
{
    int i,j;
    clrscr(); //clear screen
    for (i=1; i<=5; i++) //column
    {
        for (j=1; j<=i; j++) //row
        {
            printf("%d", j);
        }
    }
    getch();
}
```

Output

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

[15] // nested for loop demo

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int i, j; clrscr();
```

```
    for (i=5; i>=1; i--)
```

```
{
```

```
    for (j=i; j>=1; j++)
```

```
{
```

```
        printf("%d", j);
```

```
}
```

```
        printf("\n");
```

```
}
```

```
    getch();
```

```
}
```

Output:

54321

4321

321

21

1

Name:- Mukwana Pritam P.

UTR No:- 2020 BCA67

Roll No:- 7072



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16

While demo

Example : 1

```
//while demo
#include <stdio.h>
#include <conio.h>
Void main()
{
    int count = 1;
    clrscr();
    while (count <= 5)
    {
        printf ("%d\n", count);
        count++;
    }
    getch();
}
```

Output

1
2
3
4
5

17

Nested for loop demo

```
#include <stdio.h>
#include <conio.h>
Void main()
{
    int i = 1, j = 1;
    clrscr();
}
```

```
while (i <= 4 || j <= 3)
```

```
5
```

```
printf ("%d %d\n", i, j);
```

```
3
```

```
getch();
```

```
3
```

OUTPUT

```
1 1
```

```
2 2
```

```
3 3
```

```
4 4
```

Output:- 11 on screen will 44 and so on
 & on screen will be 33 and so on.
 $0 \& i = 44$ $0 \& i = 33$

18

Example of do...while

(Exit ^{control} ~~controlled~~ loop)

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
Void main()
```

```
5
```

```
int j=0
```

```
do
```

```
clrscr();
```

```
5
```

```
printf ("Value of variable j is : %d\n", j);
```

```
j++;
```

```
3 while (j<=3);
```

```
getch();
```

```
3
```

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Roll No : - 2020 BCA 67

CR No : - 1072



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Output

Value of variable j is : 0
Value of variable j is : 1
Value of variable j is : 2
Value of variable j is : 3

19] Break;

// break in loop demo

#include < stdio.h >

#include < conio.h >

Void main()

{

 Int i=1;

 clrscr();

 while (i<=10)

 {

 if (i==5)

 break;

 printf ("%d\n", i);

 i++;

}

 printf ("In End of while");

 getch();

}

Out]

1

2

3

4

End of while

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Rack No. : 2020BCR67
Roll No. : 7072



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[20]

Continue

// continue in loop demo

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
Void Main();
```

```
{ int i=0;
```

```
clrscr();
```

```
while (i<=10)
```

```
5
```

```
i++;
```

```
if (i==5)
```

```
continue;
```

```
printf ("%d\n", i);
```

```
3
```

```
printf ("\n End of while");
```

```
getch();
```

```
3
```

Output

1

2

3

4

5

6

7

8

9

10

11

End of while



21

Goto Goto statement

// goto label in loop demo

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
    int i=0;
```

```
clrscr();
```

```
while (i<10)
```

```
{
```

```
    i++;
```

```
    if (i==5)
```

```
        goto ksc;
```

```
    printf ("%d\n", i);
```

```
}
```

```
ksc:
```

```
    printf ("\n End of while");
```

```
    getch();
```

```
}
```

OUTPUT

1

2

3

4

End of ~~while~~ while

String



1

String strcpy() function.

```
// functions demo  
#include<conio.h>  
#include<string.h>  
#include<stdio.h>  
Void main()  
{
```

```
    char str1[] = "Hello world!";  
    char str2[] = "welcome bca";  
    char str3[40];  
    char str4[40];  
    char str5[] = "computer"
```

```
    strcpy(str2, str1);  
    strcpy(str3, "copy successful");  
    strcpy(str4, str5);
```

```
    printf("str1: %s\n str2: %s\n str4: %s\n", str1,  
          str2, str3, str4);
```

```
    getch();
```

3

Output

```
str1: Hello world!  
str2: welcome bca  
str3: copy successful  
str4: computer
```

[2] strcpy C() function

```
#include <stdio.h>
#include <string.h>
#include <conio.h>
```

```
Void main()
```

```
char src [5] = "Welcome.BEA";
char dest [14]
```

```
strcpy (dest,src);
printf ("copied string : %s\n",dest);
 getch();
```

[OUTPUT]

Copied string: Welcome BEA Printed

[3]

Struct C() Function

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
```

```
Void main
```

S

```
char dest [50] = "This is an";
char src [50] = "example";
```

```
struct C(dest,src);
printf ("%s",dest);
getch();
```

3

Output

This is an example

④ strcat() function

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
Void main()
{
```

```
char src[50] = "efghijkl";
char dest[50] = "abcde";
```

```
strcat(dest,src,5);
```

```
printf ("Source String : %s\n",src);
printf ("Destination String : %s",dest);
```

```
getch();
```

Output

```
Source String : efghijkl
Destination String : abcdefghi
```

⑤ strchr() function:

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
```

Void main()

{

Const char str [] = "This is just a string";

Const char ch = "u";

char *p;

p = strchr (str, ch);

Printf ("string starting from l.c is : %s", ch, p);

getch();

}

Output

string starting from u is :ust a string

6

Strrchr () function

#include <stdio.h>

#include <string.h>

int main()

{

char st [] = "GreeksforGreeks";

char ch = 'e';

char * val;

val = strrchr (st, ch);

printf ("String after last l.c is : %s\n", ch, val);

char ch2 = 'm';

val = strrchr (st, ch2);

printf ("String after last l.c is : %s", ch2, val);

return (0);

}

Output

String after last e is: eks

String after last m is: (null)

(7) strcmp ()

```
#include <stdio.h>
#include <string.h>
int main()
{
    char leftstr[] = "g f g";
    char rightstr[] = "gf g";
    int res = strcmp (leftStr, rightStr);
    if (res == 0)
        printf ("string are equal");
    else
        printf ("string are unequal");
    printf ("Value returned by strcmp() is: %d", res);
    return 0;
}
```

Output

Strings are equal

Value returned by strcmp() is: 0

7(i) >0 (greater than zero)

```
#include <stdio.h>
#include <string.h>
int main()
{
    char leftstr[] = "zfz";
    char rightstr[] = "gfg";
    int res = strcmp (leftstr, rightstr);
```

if $\text{cres} == 0$)
 printf("Strings are equal");
else
 printf("Strings are unequal");



printf("In Value of result:%d", res);

Output

String are unequal

Value returned by strcmp is -19
if (i) < 0 Less than zero

```
char leftStr [] = "bf";
char rightStr [] = "gfg";
int res = strcmp(leftStr, rightStr);
if (res == 0)
    printf("String:");
else
    printf("Program Error..");
```

Output

String are unequal
Value returned by strcmp() is: -5

(8) strcmp() (Greater than zero ($\Rightarrow 0$))

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str1[] = "Akash";
    char str2[10] = "Akash";
    int result = strcmp(str1, str2, 4);
    if (result == 0)
        printf("str1 is equal to str2 upto %u\n"
               "characters\n");
    else if (result > 0)
        printf("str1 is greater than str2\n");
    else
        printf("str2 is greater than str1\n");
}
```

str1 is greater than str2

Value returned by strcmp() is : 78

(iii) Less than zero (-10)

char str1[10] = "Vikash";

char str2[10] = "Vikash";

int result = strcmp(str1, str2, 4);

..... Output

(output)

str2 is greater than str1

Value returned by strcmp() is : -78

and (ii) case will handle

(iv) strstr() function

#include <stdio.h>

#include <string.h>

int main()

int size;

char str1[] = "geeksforgeeks";

char str2[] = "kfc";

size = strstr(str1, str2);

printf("The unmatched character before first
matched character : %c\n", size);

(output)

The unmatched character before first
matched character : m, size = 3

(11) strlen()

```
#include <stdio.h>
#include <string.h>

int main()
{
    int len
    char array [20] = "kscpac.org";
    len = strlen(array);
    printf ("String length = %d\n", len);
    return 0;
}
```

Output

String length = 10

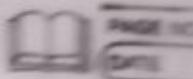
(12) Strpbrk () in c

```
# include <stdio.h>
```

```
# include <string.h>
```

```
char s1 [] = "geeks for geeks";
char s2 [] = "app";
char s3 [] = "kite";
```

```
char * r, * t;
```



r = strpbrk (s2, s3)

if (r != 0)

 printf ("First matching character : %c\n", *r);

else

 printf ("character not found");

t = strpbrk (s2, s3);

if (t != 0)

 printf ("\nFirst matching character : %c\n", *t);

else

 printf ("character not found");

return 0;

}

OUTPUT

character not found

First matching character : e

(72) strstr() (i)

(i) #include <String.h>
#include <stdio.h>

int main

S

char s2[] = "geeks for geeks";

char s2[] = "for";

char* p;



```
p = strstr(s1, s2)
```

```
if (p)
```

```
{
```

```
    printf("string found\n");
```

```
    printf("First occurrence of string  
'%s' in '%s' is '%s'.", s2, s1, p);
```

```
}
```

```
else
```

```
    printf("string not found\n");
```

```
return 0;
```

```
}
```

Output

String found

First occurrence of string 'for' in
'geeksforgeeks' is 'forgeeks'

(g) strspn()

g(i) # int main()

```
s
```

```
int len = strspn("geeks for geeks", "geek");  
printf("Length of initial segment matching:  
      %d\n", len);
```

```
}
```

Output

Length of initial segment matching 4

(9) (ii) S

```
int len = strspn ("I am xyz", "xyz");
```

```
printf ("Length of initial segment matching: %d\n",
```

len);
}

Output

Length of initial segment matching 0

(12) (ii)

(i) ~~#include <stdio.h>~~

~~#include <string.h>~~

~~#inc~~

int main()

char s1 [] = "Fun with STL";

char s2 [] = "STL";

char *p;

p = strstr (s1, s2)

if (p) {

strcpy (p, "strings");

printf ("%s", s1);

}

else

printf ("String not found\n");

3

Output

Fun with string

Q4) strtok()

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

{

```
char str[] = "Greeks for - Greeks";
```

```
char* token = strtok(str, "-");
```

```
while (token != NULL)
```

```
printf ("%s\n", token);
```

```
token = strtok (NULL, "-");
```

}

```
return 0;
```

}

OUTPUT

Greeks

for

Greeks