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## Code, Compile & Run

Ide x +

Contest Code/Name (e.g. JULY15/PRACTICE)

With argument with return type.c

Select

C (gcc 6.3)



Code gets auto-saved every second



```
1 #include <stdio.h>
2 int add(int i, int j);
3 int main()
4 {
5     int sum,a=10,b=20;
6     sum=add(a,b);
7     printf("sum is %d",sum);
8 }
9 int add(int i,int j)
10 {
11     int sum;
12     sum=i+j;
13     return sum;
14 }
```

17:2



Open File

Custom Input

Run

Status Successfully executed Date 2020-07-01 02:54:11 Time 0 sec Mem 9.424 kB



Output

sum is 30

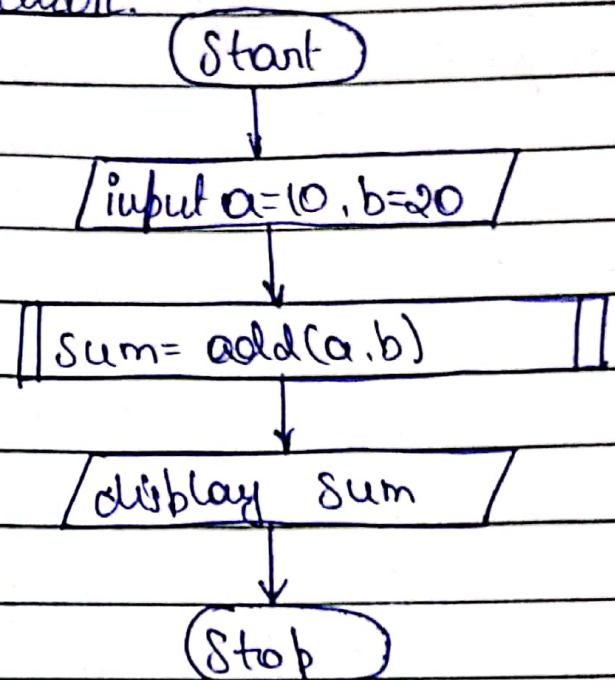
C program to implement types of functions based on parameters.

i) Functions with argument & with return type

Algorithm:

Step 1: Start  
Step 2: input  $a=10, b=20$   
Step 3:  $sum = add(a, b)$   
Step 4: display sum  
Step 5: Stop.

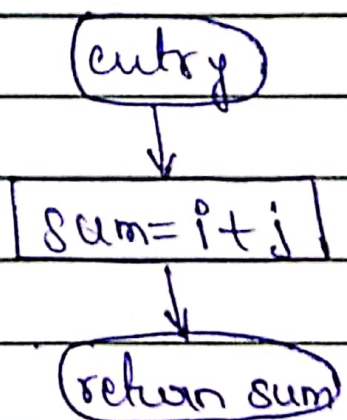
Flowchart:



add(int i, int j)

Step 1: Entry  
Step 2:  $sum = i + j$   
Step 3: return sum

add(int i, int j)





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## Code, Compile &amp; Run

Ide

Contest Code/Name (e.g. JULY15/PRACTICE)

Without argument with return type, c

Select

C (gcc 6.3)



Code gets auto-saved every second



```

1 #include <stdio.h>
2 int add();
3 int main()
4 {
5     int sum;
6     sum=add();
7     printf("sum is %d",sum);
8 }
9 int add()
10 {
11     int sum,i=10,j=20;
12     sum=i+j;
13     return sum;
14 }

```

0:0



Open File

Custom Input

Run

Status Successfully executed Date 2020-07-01 03:12:58 Time 0 sec Mem 9.424 kB



Output

sum is 30

iv) Functions with no argument & with return type

Algorithm:

Flowchart:

Step 1: start

Step 2:  $sum = add()$

Step 3: Display sum

Step 4: Stop.

Start

$sum = add()$

Display sum

Stop

add()

Step 1: entry

Step 2: Input  $i=10, j=20$

Step 3:  $sum = i + j$

Step 4: return sum

add():

entry

Input  $i=10, j=20$

$sum = i + j$

return sum



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## de, Compile &amp; Run

de x +

Contest Code/Name (e.g. JULY15/PRACTICE)

No argument no return type.c

Select

C (gcc 6.3)



Code gets auto saved every second



```

1 #include <stdio.h>
2 void add();
3 void main()
4 {
5     add();
6 }
7 void add()
8 {
9     int sum,i=10,j=20;
10    sum=i+j;
11    printf("sum is %d",sum);
12 }
13

```

:0



Open File

Custom Input

Run

Status Runtime error Date 2020-07-01 07:49:05 Time 0 sec Mem 9.424 kB



Output

sum is 30



ii) Functions with no argument and no return type

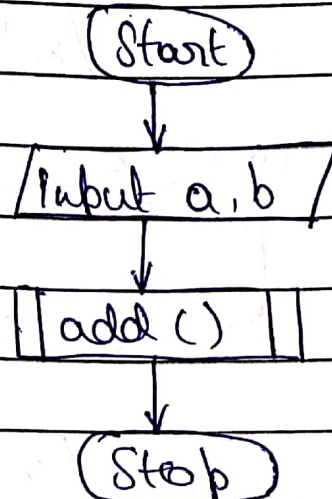
Algorithm:

Step 1: Start  
Step 2: input a, b  
Step 3: add()  
Step 4: Stop

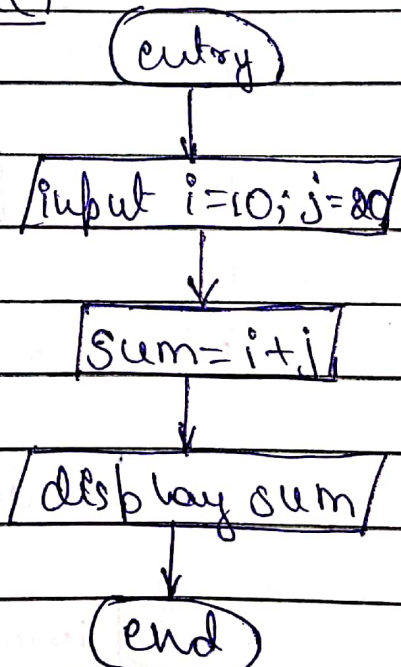
add()

Step 1: entry  
Step 2: Input  $i=10, j=20$   
Step 3:  $sum = i + j$   
Step 4: display sum  
Step 5: end

Flowchart:



add()



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## de. Compile & Run

Ide

Contest Code/Name (e.g., JUNE15/PRACTICE)

With argument no return type.c

Select

C (gcc 6.3)



Code gets auto-saved every



void

```
1 #include <stdio.h>
2 void add(int i, int j);
3 int main()
4 {
5     int a=10,b=20;
6     add(a,b);
7 }
8 void add(int i, int j)
9 {
10    int sum;
11    sum=i+j;
12    printf("sum is %d",sum);
13 }
14
```

:4



Open File

Custom Input

Run

Status Successfully executed

Date 2020-07-01 07:56:20

Time 0 sec

Mem 9.424 kB



Output

sum is 30

### iii) Functions with arguments and without return types.

Algorithm:

Step 1: Start

Step 2: input  $a=10, b=20$

Step 3:  $\text{add}(a, b)$

Step 4: Stop

$\text{add}(\text{int } i, \text{int } j)$

Step 1: entry

Step 2:  $\text{sum} = i + j$

Step 3: display sum

Step 4: end

Flowchart:

(Start)

input  $a=10, b=20$

$\text{add}(a, b)$

(Stop)

$\text{add}(\text{int } i, \text{int } j)$

(entry)

$\text{sum} = i + j$

display sum

(end)