

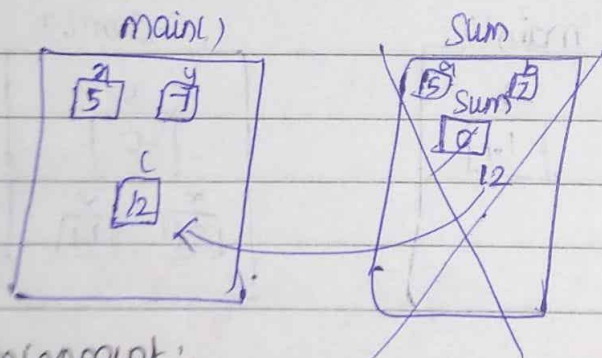
C-91 \Rightarrow Functions in C - Part 8

Functions with Argument and Return type

Example:

```
int sum(int, int);  
void main()  
{  
    int x, y, c;  
    printf("Enter x and y: \n");  
    scanf("%d %d", &x, &y);  
    c = sum(x, y);  
    printf("sum = %d", c);  $\Rightarrow$  (12)  
}
```

```
int sum(int a, int b)  
{  
    int sum = 0;  
    sum = a + b;  
    return sum;  
}
```



Assignment:

* Write a program in which a function takes two arguments as input and find which value is maximum; using function with argument and return type.

PROBLEM 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 1 - With Argument With Return Type */
4  int sum(int,int);
5  int main()
6  {
7      int value=0;
8      value=sum(5,5);
9      printf("Sum is %d\n",value);
10 }
11 int sum(int a,int b)
12 {
13     return a+b;
14 }
15
```

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Sum is 10

Process returned 0 (0x0) execution time : 0.012 s
Press any key to continue.

PROBLEM 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 2 - With Argument With Return Type **/
4  int sum(int,int);
5  int main()
6  {
7      int x,y,value=0;
8      printf("Enter values of x and y:\n");
9      scanf("%d %d",&x,&y);
10     value=sum(x,y);
11     printf("Sum is %d\n",value);
12 }
13 int sum(int a,int b)
14 {
15     int value=0;
16     value=a+b;
17     return value;
18 }
19
```

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```
Enter values of x and y:
20
20
Sum is 40

Process returned 0 (0x0)   execution time : 40.404 s
Press any key to continue.
```

PROBLEM 3:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 3 - With Argument With Return Type **/
4  int compare(int,int);
5  int main()
6  {
7      int a,b,value=0;
8      printf("Enter two numbers:\n");
9      scanf("%d %d",&a,&b);
10     value=compare(a,b);
11     printf("Greatest value is %d\n",value);
12 }
13 int compare(int a,int b)
14 {
15     if(a>b)
16         return a;
17     else
18         return b;
19 }
20
```

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Enter two numbers:

2000

1450

Greatest value is 2000

Process returned 0 (0x0) execution time : 9.227 s

Press any key to continue.