

C-89 \Rightarrow Functions in C \rightarrow Part 6

Functions without argument with return type

Syntax :

Return type functionname (void) ;



int / char / float

Example:

```
int sum(void);
void main()
{
```

```
    int s;
    S = sum();
    // printf("Sum = %d", sum);
}
```

S → (Correct)

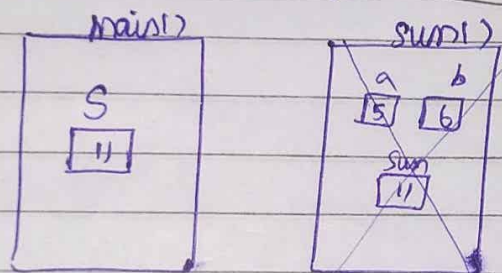
↑
(sum) → This line is error
beoz sum is
defined only
within sum()

```
int sum()
{
```

```
    int a, b, sum = 0;
    printf("Enter 2 numbers:");
    scanf("%d %d", &a & b);
    sum = a + b;
    return sum;
```

→ Here we return our
sum() function value.

```
    printf("Inside sum:");
}
```



→ This line is
not executed
because the

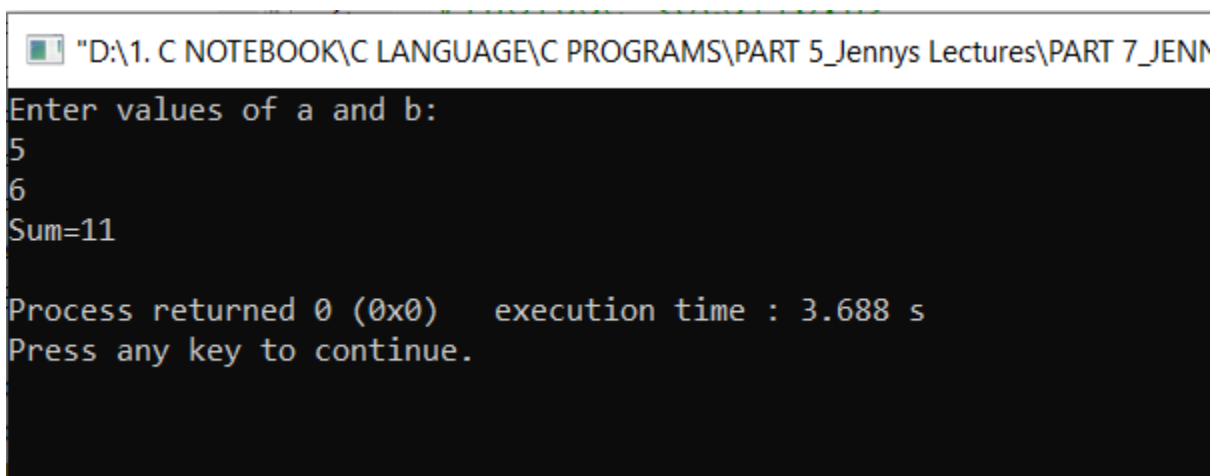
Control will go to return
function.

(b)

```
// return a+b; → return 11
// return sum, a; → return a value
// because comma operator; so operator
// precedence and ignores first value (ie) sum.
// return sum, a, b; → return b value.
// return 'a', 'b', '1';
```

PROBLEM 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 1 - No Argument with Return Type **/
4
5  int sum(void);
6  int main()
7  {
8      int s;
9      s=sum();
10     printf("Sum=%d\n",s);
11 }
12 int sum()
13 {
14     int a,b,sum=0;
15     printf("Enter values of a and b:\n");
16     scanf("%d %d",&a,&b);
17     sum=a+b;
18     return sum;
19 }
20
```



```
"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENN
Enter values of a and b:
5
6
Sum=11

Process returned 0 (0x0)   execution time : 3.688 s
Press any key to continue.
```

PROBLEM 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 2 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",addition);
10     //addition variable is local to sum() function only
11 }
12 int sum()
13 {
14     int a,b,addition=0;
15     printf("Enter values of a and b:\n");
16     scanf("%d %d",&a,&b);
17     addition=a+b;
18     return addition;
19 }
20
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++

File	Line	Message
D:\1. C NO...	10	error: 'addition' undeclared (first use in this function)
D:\1. C NO...	10	note: each undeclared identifier is reported only once for each fu...

PROBLEM 3:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 3 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",s);
10 }
11 int sum()
12 {
13     int a,b;
14     printf("Enter values of a and b:\n");
15     scanf("%d %d",&a,&b);
16     return a+b;
17 }
18
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_F

Enter values of a and b:

5

6

Sum=11

Process returned 0 (0x0) execution time : 4.331 s

Press any key to continue.

PROBLEM 4:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 4 - No Argument with Return Type **/
4  float sum(void);
5  int main()
6  {
7      float s;
8      s=sum();
9      printf("Sum=%f\n",s);
10 }
11 float sum()
12 {
13     int a,b;
14     printf("Enter values of a and b:\n");
15     scanf("%d %d",&a,&b);
16     return a+b;
17 }
18
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_

Enter values of a and b:

5

4

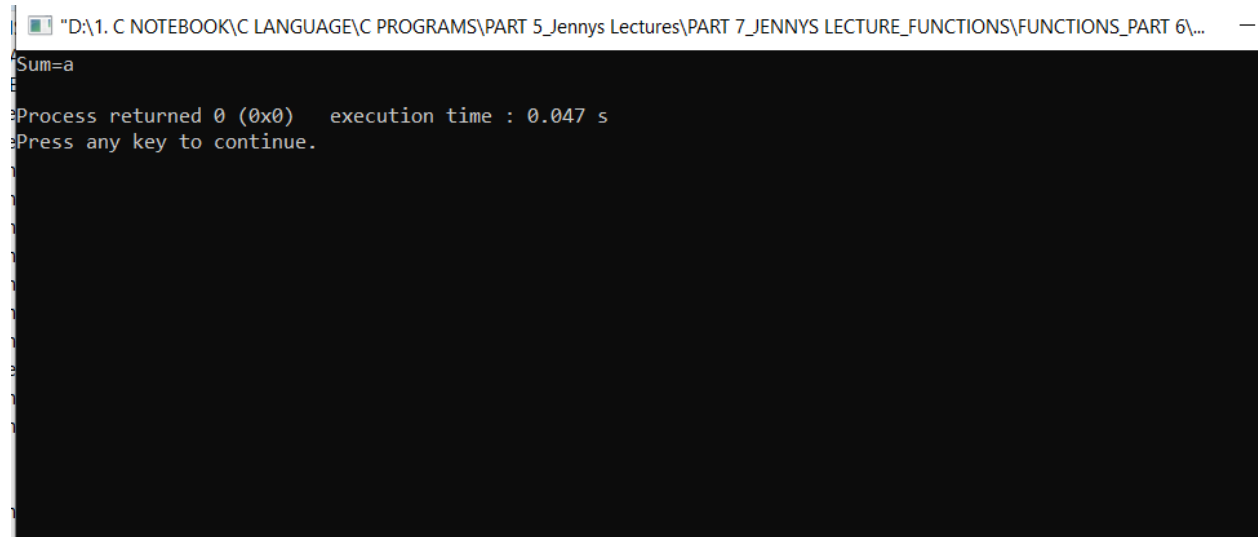
Sum=9.000000

Process returned 0 (0x0) execution time : 3.472 s

Press any key to continue.

PROBLEM 5:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 5 - No Argument with Return Type **/
4  char sum(void);
5  int main()
6  {
7      char s;
8      s=sum();
9      printf("Sum=%c\n",s);
10 }
11 char sum()
12 {
13     int a=4,b=5;
14     return 'a';
15 }
16
```



```
"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNY'S LECTURE_FUNCTIONS\FUNCTIONS_PART 6\...
Sum=a
Process returned 0 (0x0) execution time : 0.047 s
Press any key to continue.
```

PROBLEM 6:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 6 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",s);
10 }
11 int sum()
12 {
13     int a=4,b=5;
14     return a+b; //from this statement the function ends
15     return 'a'; //this statement is not evaluated
16 }
17
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PA

Sum=9

Process returned 0 (0x0) execution time : 0.041 s

Press any key to continue.

PROBLEM 7:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 7 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",s);
10 }
11 int sum()
12 {
13     int a=4,b=5,sum=0;
14     sum=a+b;
15     return a,sum;
16 }
17
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 6\...

Sum=9

Process returned 0 (0x0) execution time : 0.029 s
Press any key to continue.

PROBLEM 8:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 8 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",s);
10 }
11 int sum()
12 {
13     int a=4,b=5,sum=0;
14     sum=a+b;
15     return sum,a; //comma operator precedence from right to left
16 }
17
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIO

Sum=4

Process returned 0 (0x0) execution time : 0.040 s
Press any key to continue.

PROBLEM 9:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 9 - No Argument with Return Type **/
4  int sum(void);
5  int main()
6  {
7      int s;
8      s=sum();
9      printf("Sum=%d\n",s);
10 }
11 int sum()
12 {
13     int a=4,b=5,sum=0;
14     sum=a+b;
15     return sum,a,b; //comma operator precedence from right to left
16 }
17 |
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 6\...

Sum=5

Process returned 0 (0x0) execution time : 0.109 s
Press any key to continue.

PROBLEM 10:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 10 - No Argument with Return Type **/
4  char sum(void);
5  int main()
6  {
7      char s;
8      s=sum();
9      printf("Sum=%c\n",s);
10 }
11 char sum()
12 {
13     int a=4,b=5,sum=0;
14     sum=a+b;
15     return 'a','0','1'; //comma operator precedence from right to left
16 }
17
```

"D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 6\...

Sum=1

Process returned 0 (0x0) execution time : 0.045 s
Press any key to continue.