

Video No.: 63

Topic Name: Function Definition in C

01. What is function definition?

Function definition consist of block of code which is capable of performing some specific task.

Example:

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

Code 02:

```
#include<stdio.h>  
  
int add(int, int); // function prototype  
  
int main(){  
    int m = 20, n = 30, sum;  
    sum = add(m,n);  
    printf("The sum of the two given number is: %d", sum);  
}  
  
// Definition of Function  
int add(int a, int b){  
    return(a+b);  
}
```

This is the way we call a function.

Note: While calling a function we should not mention the return type of the function.

Also, we should not mention the data types of the argument.

This is the way we define a function.

Note: It is important to mention both data type and name of parameters

02. What is difference between an Argument and a Parameter?

Parameter: It is a variable in the declaration and definition of the function.

Argument: It is the actual value of the parameter that gets passed to the function.

NOTE: Parameter is also called as Formal Parameter and Argument is also called as Actual Parameter.

Example:

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

```
int add(int, int); // function prototype
```

```
int main(){
```

```
    int m = 20, n = 30, sum;
```

```
    sum = add(m,n);
```

```
    printf("The sum of the two given number is: %d", sum);
```

```
}
```

```
// Definition of Function
```

```
int add(int a, int b){
```

```
    return(a+b);
```

```
}
```

Arguments or Actual Parameters

Parameters or Formal Parameters