

FUNCTIONS IN C

FUNCTIONS

- ✓ A function in c language is any set of instructions that perform a certain task.
- ✓ There are a variety of pre-defined functions in c.
- ✓ Examples : printf, scanf, main etc.

NEED FOR USER DEFINED FUNCTIONS

- ✓ Problems in incorporating everything inside main.
- ✓ In cases where a certain set of code statements need to be repeated several time is the program.

USER DEFINED FUNCTIONS

Elements:

- ✓ Function definition.
- ✓ Function call
- ✓ Function declaration

Definition:

```
Function type_ function name_(parameter list)
{
    Local variable declarations;
    executable statements....;
}
```

FLOW OF CONTROL

- ✓ Program execution starts with the main function.
- ✓ Whenever a function is encountered, the control goes to the function definition and returns back to the calling function.

```
main(){  
    -----  
    Function1();  
    -----  
    Function2();  
    -----  
    Function1(); }  
-----
```

```
Function1(){  
    -----  
    -----}  
-----
```

```
Function2(){  
    -----  
    Function3();  
    -----}  
-----
```

```
Function3(){  
    -----  
    }  
-----
```