

# All Online Learning

www.allonlinelearning.com

## Function in C Program

There are two type of function in C Program.

- Library function
- User defined function

### Library function:

Library function is grouped category-wise and stored in different files known as header file. If we want to access the function then we access the particular header file using preprocessor directive (#include<header file>)

**Example:** printf(); , scanf(); , getch(); , pow();

### User defined function:

User defined functions are created by user and use according to the fallowing steps.

- Definition of the function
- Calling of the function
- Prototype declaration of function

### Definition of the function:

```
return type function_name (data type arg1, data type arg2, ....)
{
    Body of function;
}
```

### Example:

```
float simpleint ( int p, float r, int t)
{
    float si;
    si=(p*r*t)/100.0;
    return(si);
}
```

### Calling of the function:

```
function_name ( arg1, arg2, ....);
```

### Example:

```
simpleint(p,r,t);
```

### Prototype declaration of function:

```
return type function_name (data type arg1, data type arg2, ....);
```

or

```
return type function_name (data type , data type , ....);
```

### Example:

```
float simpleint(int p, float r, int t);
```

# All Online Learning

[www.allonlinelearning.com](http://www.allonlinelearning.com)

## Complete program:

```
#include<stdio.h>
#include<conio.h>
float simpleint(int p, float r, int t); // Prototype Declaration
void main()
{
    int p,t;
    float si, r;
    clrscr();
    printf("\n Enter Principal Rate and Time ");
    scanf("%d%f%d",&p,&r,&t);
    si=simpleint(p,r,t); // Calling of function
    printf("\n Simple Interest %f",si);
    getch();
}
float simpleint(int p, float r, int t) // Definition of function
{
    float si;
    si=(p*r*t)/100.0;
    return(si);
}
```