

## 7. Shell Scripting – Functions

- Functions are set of instructions to perform specific task and it can be accessed anywhere in the script using function call.
- Functions can be added to any script to make the script modular and flexible. For example, if a feature is to be added or removed from script, if a function is used to add that feature, then it makes the script flexible and makes the process easier.

```
function function_name()  
{  
    #task to be performed  
}
```

- Function should be written with the keyword **function** and every function should have a specific function name.
- Every function can be called anywhere in script using function call format as given below:

``function_name argument1 argument2 . . .``

OR

`$(function_name argument1 argument2 . . .)`

- Command substitution method should be used to make function call. Only arguments to the function separated with spaces should be passed on function call.
- The result of function call can be even assigned to a variable.

### Function formats:

<b>\$@</b>	<b>→</b>	<b>to get all the function arguments</b>
<b>\$#</b>	<b>→</b>	<b>total number of function arguments</b>
<b>\$i</b>	<b>→</b>	<b>to access i<sup>th</sup> argument to function given in the order</b>

Command line argument formats can be used as function formats inside the function or within { }. When these formats are used outside { } of function, then it will be considered as command line argument formats.