

# Problem Solving: Functions

## Pre-read



# Things I should know before attending today's class

Whenever we need to execute some logic in our program, we focus on performing it in a specific module having the required scope. This can be achieved using functions. Functions are used to execute required logic and we can associate them with classes as well in java.



## What are functions?

A function is a set of statements that takes an input, perform the relevant computation based on the statement written. Furthermore, functions are first-class objects, because they can have properties and methods just like any other object. In JavaScript, a function is defined by below syntax-

```
function funName(parameter1, parameter2, parameter3) {  
  // logic  
}
```



## What will we be doing in this session?

We will be solving data structures and algorithms problems based on functions and will deep dive into various approaches and will discuss about the time and space complexity for each of the problems

- Function Calling and Reusability
- Sum of Prime
- Sum of Digits
- Power of Number
- Factor

