# Groovy Basics

Groovy script is added in ‘script’ section in pipeline declaration

## If statement

As per example below we can use if condition in Groovy script.

pipeline{

    agent any

    parameters{

        booleanParam(defaultValue: false,

                    description: "Enable complete stage ?",

                    name : "myBoolean")

    }

    stages{

        stage("Demo"){

            steps{

                // Groovy script is added in 'script' tag. IT allow us to use loops, conditions

                // and other complex logic in pipeline declaration

                script{

                        // check if tickbox is not ticked

                        if(params.myBoolean == false){

                            echo "Bolean param is set to : ${params.myBoolean} so stop execution"

                            // set return status of build to abort

                            currentBuild.result = 'ABORTED'

                            // abort the build process and by giving message

                            error("Aborting the build.")

                        }

                        else{

                            echo "Bolean param is set to : ${params.myBoolean} so continue execution"

                        }

                }

                     echo "Demo stage.."

            }

        }

        stage("Complete"){

            steps{

                    echo "Finishing execution..."

            }

        }

    }

}

## Function

Jenkins pipeline supports functions with params

pipeline{

    agent any

    parameters{

        string(defaultValue: "enter input",

                    description: "Enter sample message",

                    name : "myMessage")

    }

    stages{

        stage("Demo"){

            steps{

                // calling function with input param given by user

                myFunc(param.myMessage)

        }

        }

        stage("Complete"){

            steps{

                    echo "Finishing execution..."

            }

        }

    }

}

// defining function

def myFunc(String message){

    // this is local function variable

    // also function can’t access variables from outside we need to pass them

    // explicitly to function

    String localString = "Hello, "

    echo "${localString}${message}"

}