**Conditional Statements:** There are total 5 conditional statements which can be used in bash programming

1. if statement
2. if-else statement
3. if..elif..else..fi statement (Else If ladder)
4. if..then..else..if..then..fi..fi..(Nested if)
5. switch statement

**Looping Statements in Shell Scripting:** There are total 3 looping statements that can be used in bash programming

**Table of Content**

* **while**
* **for**
* **util**

To alter the flow of loop statements, two commands are used they are,

1. break
2. continue

**while :**

#/bin/bash  
while <condition>  
do  
 <command 1>  
 <command 2>  
 <etc>  
done

**Functions :**

* A function is a collection of statements that execute a specified task

Some of the **debugging tools** :

* ‘print Statement’
* Querying (/proc, /sys etc)
* Tracing (strace/ltrace)
* Valgrind (memwatch)
* GDB

**Rules for Naming Variable Name**

* A variable name can have letters, numbers, and underscores
* There should be no whitespace on either side of the assignment operator(=)
* The  variable name cannot have special characters
* The first character of the variable name cannot be a number
* Variable names cannot be reserved words
* Variable name cannot have whitespace in between.