Session 9: Loop control in shell scripting (3 <u>Hrs.</u>)

Content Delivery (1.5 Hrs)

Agenda:

- 1. For Loop
- 2. Nesting of for Loop
- 3. While loop

For Loop

First, the variable used in loop condition must be initialized, then execution of the loop begins.

A test (condition) is made at the beginning of each iteration.

The body of loop ends with a statement that modifies the value of the test (condition) variable.

Syntax:

```
for { variable name } in { list }
  do
```

execute one for each item in the list until the list is not finished and

repeat all statement between do and done done

Example:

```
for i in 1..5
do
echo "Welcome $i times"
done
```

Syntax:

```
for ((expr1; expr2; expr3))
do
repeat all statements between
do and done until expr2 is TRUE
Done
```

Example:

```
for (( i = 0; i \le 5; i++ )) do echo "Welcome $i times" done
```

Nesting of for Loop

Example:

```
for (( i = 1; i <= 5; i++ ))

do

for (( j = 1; j <= 5; j++ ))

do

echo -n "$i"

done

echo ""

done
```

While loop

Syntax:

```
while [ condition ]
do
command1 command2 command3 .. ....
done
```

Example:

```
COUNT=4

while [ $COUNT -gt 0 ];

do

echo "Value of count is: $COUNT"

COUNT=$(($COUNT - 1))

done
```

Lab Task (1.5 Hrs)

- 1. Finding Odd and Even number from the list.
- 2. Finding addition value from the list.
- 3. Print reverse from the list.
- 4. Print:

5. Print:

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