

SHELL  
SCRIPT  
PATTERN

## Experiment 11

Date 12/10/23

Roll no: A0

Aim: Write a shell script to display pattern using nested loops.

### Theory:

#### Loops in shell programming

Just like every other programming language, shell programming also has loops, namely for loop, while loop and do-while loop. Before we look at some examples of each let us look at the difference between while loop and do while loop.

The while loop checks the condition first and executes a set of commands while it is true and exits when false. The do-while loop on the other hand first executes the set of arguments and only then checks the condition. This means that the minimum number of times you can execute a do-while loop is once.



# program

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```

```

number = 1
rows = 1
for (i = 1; i < rows; i++)
do
for (j = 1; j <= 1; j++)
do
echo -n "$number"
number = $((number + 1))
done
number = 1
echo
done

```

```

*
* *
* * *
* * * *
* * * * *

```

```

rows = 4
for ((i = 1; i <= rows; i++))

```

```
do
for (i=1 ; i <= 1 ; i++)
do
echo -n "*"
done
echo
done.
```

Conclusion: Hence we have written a shell script to display patterns using nested loops.

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