

Bash Shell Script to display Pyramid and Pattern

In this script, you will learn how to create half and full pyramids, Floyd's triangle and Pascal's triangle using if-then statement.

Bash Shell Script to print half pyramid using *

```
*
* *
* * *
* * * *
* * * * *
```

```
#Bash Shell Script to print half pyramid using *
rows=4
for((i=1; i<=rows; i++))
do
    for((j=1; j<=i; j++))
    do
        echo -n "*"
    done
    echo
done
```

Bash Shell Script to print half pyramid using numbers

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

```
#Bash Shell Script to print half pyramid using numbers
number=1
rows=5
for((i=1; i<=rows; i++))
do
    for((j=1; j<=i; j++))
    do
        echo -n "$number "
        number=$((number + 1))
    done
    number=1
    echo
done
```

Bash Shell Script to print inverted half pyramid using *

```
* * * * *
* * * *
* * *
* *
*
```

```
#Bash Shell Script to print inverted half pyramid using *
rows=5
for((i=rows; i>=1; i--))
do
    for((j=1; j<=i; j++))
    do
        echo -n "* "
    done
    echo
done
```

Bash Shell Script to print inverted half pyramid using numbers

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

```
#Bash Shell Script to print inverted half pyramid using numbers
number=1
rows=5
for((i=rows; i>=1; i--))
do
    for((j=1; j<=i; j++))
    do
        echo -n "$number "
        number=$((number + 1))
    done
    number=1
    echo
done
```

Bash Shell Script to print full pyramid using *

```
      *
    * * *
  * * * * *
* * * * * * *
* * * * * * * *
```

```
#Bash Shell Script to print full pyramid using *
rows=5
for((i=1; i<=rows; i++))
do
    for((j=1; j<=rows - i; j++))
    do
        echo -n "  "
    done
    for((j=1; j<=2*i - 1; j++))
    do
        echo -n "*"
    done
    echo
done
```

Bash Shell Script to print full pyramid using numbers

```

      1
     2 3 2
    3 4 5 4 3
   4 5 6 7 6 5 4
  5 6 7 8 9 8 7 6 5
```

```
#Bash Shell Script to print full pyramid using numbers
rows=5
number=1
for((i=1; i<=rows; i++))
do
    for((j=1; j<=rows - i; j++))
    do
        echo -n "  "
    done
    number=$i
    k=1
    for((j=1; j<=2*i - 1; j++))
    do
        if [ $j -lt $i ];
        then
            echo -n "$number "
            number=$((number + 1))
        elif [ $j -eq $i ];
        then
            echo -n "$number "
            number=$((number - 1))
        else
            echo -n "$number "
            number=$((number - 1))
        fi
    done
    echo
done
```

Bash Shell Script to print Floyd's Triangle

```
1
2 3
4 5 6
7 8 9 10
```

#Bash Shell Script to print Floyd's Triangle

```
number=1
```

```
rows=4
```

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

```
do
```

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

```
    do
```

```
        echo -n "$number "
```

```
        number=$((number + 1))
```

```
    done
```

```
    echo
```

```
done
```