

Shell Scripting

1. To read your name and print your name

```
Open  ques1.sh  
~/  
1 #!/bin/sh  
2 echo " enter your name"  
3 read name  
4 echo " you entered $name "
```

Output:

```
arun@arun-ubuntu:~$ chmod +x ques1.sh  
arun@arun-ubuntu:~$ ./ques1.sh  
 enter your name  
arun  
 you entered arun
```

2. To find out entered number is either positive, negative or zero

```
1 #! /bin/sh  
2 echo "enter the number"  
3 read n  
4 if [ $n -lt 0 ]; then  
5 echo "number is negative"  
6 elif [ $n -eq 0 ]; then  
7 echo " number is 0 "  
8 else  
9 echo "number is positive"  
10 fi
```

Output:

```
arun@arun-ubuntu:~$ chmod +x ques2.sh  
arun@arun-ubuntu:~$ ./ques2.sh  
enter the number  
12  
number is positive
```

3. To get numbers from command line and get sum (Implementation of For loop)

```
1 #!/bin/bash
2 sum=0
3 # Iterate over command-line arguments
4 for num in "$@"
5 do
6     sum=$((sum + num))
7 done
8 echo "The sum is $sum"
```

Output:

```
arun@arun-ubuntu:~$ ./ques3.sh 1 4 7
The sum is 12
```

4. To read lines from a file.

```
1 #!/bin/sh
2 file='pizza.txt'
3 while read line;
4 do
5 echo $line
6 done < $file
```

file:

```
1 Pizza is a dish of Italian origin consisting of a usually round, flat base of
   leavened wheat-based dough topped with tomatoes, cheese, and often various other
   ingredients, which is then baked at a high temperature, traditionally in a wood-
   fired oven.
```

Output:

```
arun@arun-ubuntu:~$ ./ques4.sh
Pizza is a dish of Italian origin consisting of a usually round, flat
avened wheat-based dough topped with tomatoes, cheese, and often vari
ngredients, which is then baked at a high temperature, traditionally
fired oven.
```

5. To find average of the number using function and sending data as argument to the function

```
1 #!/bin/bash
2 Average() {
3     sum=0
4     a=$#
5     # Iterate over command-line arguments
6     for num in "$@"
7     do
8         sum=$((sum + num))
9     done
10    average=$((sum / a))
11    return $average
12 }
13
14 Average 20 30 40
15 result=$?
16 echo "Returned average: $result"
```

Output:

```
arun@arun-ubuntu:~$ chmod +x ques5.sh
arun@arun-ubuntu:~$ ./ques5.sh
Returned average: 30
```