

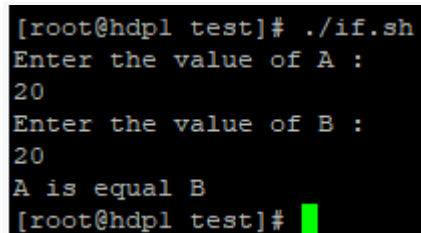
21BCE7371
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BASIC SHELL PROGRAMMES

1. If-else

```
#!/usr/bin/bash
echo "Enter the value of A : "
read a
echo "Enter the value of B : "
read b
if [ "$a" == "$b" ]
then
echo "A is equal B"
else
echo "A is not equal to B"
Fi
```

Output

A screenshot of a terminal window showing the execution of a shell script. The prompt is [root@hdpl test]#. The script asks for the value of A, which is 20. It then asks for the value of B, which is also 20. The script outputs "A is equal B". The prompt returns to [root@hdpl test]#.

```
[root@hdpl test]# ./if.sh
Enter the value of A :
20
Enter the value of B :
20
A is equal B
[root@hdpl test]#
```

2 Write a shell program to find the maximum among the three numbers.

```
1  #!/bin/bash
2
3  echo "Enter Number 1"
4  read n1
5  echo "Enter Number 2"
6  read n2
7  echo "Enter Number 3"
8  read n3
9
10 if [ $n1 -gt $n2 ] && [ $n1 -gt $n3 ]
11 then
12     echo $n1
13 elif [ $n2 -gt $n1 ] && [ $n2 -gt $n3 ]
14 then
15     echo $n2
16 else
17     echo $n3
18 fi
```

OUTPUT

```
322
76
123
```

Output

```
Enter Number 1
Enter Number 2
Enter Number 3
322
```

```
[Execution complete with exit code 0]
```

Q3 Write a shell program to find the sum of n numbers using for loop.

```
1  #!/bin/bash
2
3  echo "Enter Size(N)"
4  read N
5
6  i=1
7  sum=0
8
9  echo "Enter Numbers"
10 while [ $i -le $N ]
11 do
12     read num
13     sum=$((sum + num))
14     i=$((i + 1))
15 done
16
17 echo $sum
```

OUTPUT

```
5
1
~
Output

Enter Size(N)
Enter Numbers
15

[Execution complete with exit code 0]
```

Q4 Write a Shell program to check the given number is even or odd.

```
1  #!/bin/bash
2
3  echo -n "Enter a number:"
4  read n
5  echo -n "RESULT: "
6  if [ `expr $n % 2` == 0 ]
7  then
8      echo "$n is even"
9  else
10     echo "$n is Odd"
11  fi
```

OUTPUT

67

Output

Enter a number:RESULT: 67 is Odd

[Execution complete with exit code 0]

Q5 . Write a Shell program to find the factorial of a number

```
1  #!/bin/bash
2
3  echo "Enter a number"
4  read num
5
6  fact=1
7
8  while [ $num -gt 1 ]
9  do
10     fact=$((fact * num))
11     num=$((num - 1))
12 done
13
```

OUTPUT

5

Output

Enter a number

120

[Execution complete with exit code 0]

Q6 Write a Shell program to swap the two integers

```
1  #!/bin/bash
2
3  echo "Enter First Number:"
4  read first
5  echo "Enter Second Number: "
6  read second
7
8  temp=$first
9  first=$second
10 second=$temp
11
12 echo "After swapping, numbers are:"
13 echo "first = $first, second = $second"
14 fi
```

OUTPUT

```
65
44
```

Output

```
Enter First Number:
Enter Second Number:
After swapping, numbers are:
first = 44, second = 65

[Execution complete with exit code 0]
```