21BCE7371
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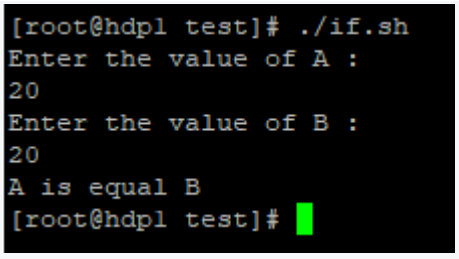
BASIC SHELL PROGRAMMES

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



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

```bash
#!/bin/bash

echo "Enter Number 1"
read n1
echo "Enter Number 2"
read n2
echo "Enter Number 3"
read n3

if [ $n1 -gt $n2 ] && [ $n1 -gt $n3 ]
then
    echo $n1
elif [ $n2 -gt $n1 ] && [ $n2 -gt $n3 ]
then
    echo $n2
else
    echo $n3
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.

```
#!/bin/bash

echo "Enter Size(N)"
read N

i=1
sum=0

echo "Enter Numbers"
while [ $i -le $N ]
do
  read num
  sum=$((sum + num))
  i=$((i + 1))
done

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.

```
#!/bin/bash

echo -n "Enter a number:"
read n
echo -n "RESULT: "
if [ `expr $n % 2` == 0 ]
then
    echo "$n is even"
else
    echo "$n is Odd"
fi
```

OUTPUT

```
67
```

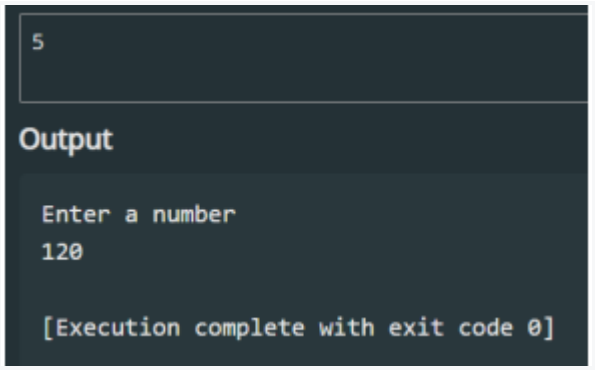
Output

```
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

```
#!/bin/bash

echo "Enter a number"
read num

fact=1

while [ $num -gt 1 ]
do
  fact=$((fact * num))
  num=$((num - 1))
done

```

OUTPUT



Q6 Write a Shell program to swap the two integers

```
#!/bin/bash

echo "Enter First Number:"
read first
echo "Enter Second Number: "
read second

temp=$first
first=$second
second=$temp

echo "After swapping, numbers are:"
echo "first = $first, second = $second"
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]
```