

Print whether the number is even or odd.

echo "Enter the num"

read num

if [! expr \$num % 2 -eq 0]
then

 echo "The num is positive"

else

 echo "The num is negative"

fi

Qn 22

① write a shell program to check whether the year is leap year or not

#!/bin/bash

echo "Check whether leap year or not"

echo "Enter the year"

read year

if [! expr \$year % 4 -eq 0]
then

 echo "Year is a leap year"

```
elif [ `expr $year % 400` -eq 0 ]  
then
```

```
    echo "Year is leap year"  
elif [ `expr $year % 100` -eq 0 ]  
then
```

```
    echo "Year is not a leap"  
else
```

```
    echo "end"  
fi.
```

Output:

leap year or not

Enter the year

2008

Year is leap year.

- ② Write a shell program to check whether the given number is positive, negative or zero.

#!/bin/bash

```
echo "check num is positive or negative"
```

echo "Enter the number"
read n.

if ["\$n -gt 0"]
then

 echo "\$n is positive"
elif ["\$n -gt 0"]
then

 echo "\$n is negative"
else ["\$n -eq 0"]
then

 echo "\$n is zero"
else

 echo "Enter proper input"

fi

echo "The sum is zero"

fi

output: Click whether number is
positive or negative

Enter the number

-8

-8 is negative

Enter the number.

9

9 is positive.

- ③ Write a shell program to print largest of given 3 numbers.

#!/bin/bash

echo "Greatest of three numbers"

echo "Enter the first number"

read num1

echo "Enter the second number"

read num2

echo "Enter the third number"

read num3

if [\$num1 -gt \$num2] && [\$num1 -gt \$num3]

then

echo "\$num1 is greater"

elif [\$num2 -gt \$num1] && [\$num2 -gt \$num3]

then

echo "\$num2 is greater"

* echo "Sum3 is greater"

fi

outputs

greatest of three numbers.

Enter the first number
6

Enter the second number

12

Enter the third number
9

12 is greater.

4) Greatest [largest of three numbers using positional parameters]

echo "Largest of 3 numbers using pm"

echo '\$0 = \$0'

echo '\$1 = \$1'

echo '\$2 = \$2'

echo '\$3 = \$3'

if [\$1 -gt \$2] && [\$1 -gt \$3]

then

echo "\$1 is greater"

elif [\$2 -gt \$1] && [\$2 -gt \$3]

then

echo "\$2 is greater"

else

echo "\$3 is greater"

fi

Output:

Largest of 3 numbers using pm

\$0 = largest.1h

\$1 = 10

\$2 = 50

\$3 = 70

in greater

5) strings are equal or not

echo "Enter the first string"
read \$1

echo "Enter the second string"
read \$2

if [\$1 = \$2]
then

echo "Strings are equal"

else

echo "Strings are not equal"

Output

Enter the first string

hema

Enter the second string

suh

Strings are not equal.

⑥

Check whether it is directory file
or not

echo "Enter the filename"
read filename

if [-d \$filename]
then

else " It is a directory "

else

else " It is not a directory "

fi

elif: \$ mkdir -hq:

\$ A new directory is h.

directory created.

Enter the file name.

W:

It is not a directory

olb

Enter two numbers.

5

It is not over.

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