

```
/*IF*/
```

1. WAP to check whether the product of two given numbers is odd or even.

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
Date:
Description:
Sample i/p:
Sample o/p:
Doc
```

```
echo "ENTER TWO NUMBERS"
read num1 num2
prod=`expr $num1 \* $num2`
echo "$prod"
```

```
if [ $(( $prod % 2 )) -eq 0 ]
then
    echo "product is even"
else
    echo "product is odd"
fi
```

```
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--
```

2. WAP to check whether the entered number is multiple of 5.

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
Date:14-09-2022
Description:check whether the entered number multiple of 5
Sample i/p:Any number
Sample o/p:is entered number Multiple by 5 / not
Doc
```

```
echo "Enter number"
read num1
```

```

if [  $((num1 \% 5)) -eq 0$  ]
then
    echo "Number is multiple of 5"
else
    echo "Number is not multiple of 5"
fi

```

```

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```

3. WAP, given three sides of a triangle, to check whether the triangle is perfect right triangle.

```
#!/bin/bash
```

```

<<Doc
Name:Jagadeesh
Date:14-09-2022
Description:given 3 sides of triangle,to check the triangle is perfect
            right triangle?
Sample i/p:Triangle a b c values
Sample o/p:Triangle is right angle \ not
Doc

```

```

echo "Enter values of Triangle sides a b c"
read small1
read small2
read large

```

```

if [  $((($small1 ** 2) + ($small2 ** 2))) -eq (($large ** 2))$  ]
then
    echo " Triangle is right angled "
else
    echo " Triangle is not right angled"
fi

```

```

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```

4. WAP to check whether given year is leap year or not.

```
#!/bin/bash
```

```
<<Doc
```

Name:Jagadeesh
Date:14-09-2022
Description:check whether given number is leap year or not.
Sample i/p:
Sample o/p:
Doc

```
read year
if [ $((year % 100)) -eq 0 ]
then
    if [ $((year % 400)) -eq 0 ]
    then
        echo Leap year
    else
        echo not a leap year
    fi
elif [ $((year % 4)) -eq 0 ]
then
    echo Leap year
else
    echo Not a leap year
fi
```

```
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```

5. WAP that reads in 2 integers and determines and prints if the first is a multiple of the second.

#!/bin/bash

```
<<Doc
Name:Jagadeesh
Date:14-09-2022
Description:if the first is multiple of the second
Sample i/p:
Sample o/p:
Doc
```

```
echo "Enter the First integer numbers"
read num1
echo "Enter the Second integer numbers"
read num2
```

```

if [ $($num1 % $num2) -eq 0 ]
then
echo " First number is Multiple of Second Number "
else
echo " First number is not Multiple of Second Number "
fi

```

```

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```

```

/*FOR, WHILE */

```

```

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```

6. WAP to find the smallest and largest of entered n numbers

```

#!/bin/bash

```

```

<<Doc
Name:Jagadeesh
Date:14-09-2022
Description:find the smallest and largest of entered n number.
Sample i/p:
Sample o/p:
Doc

```

```

read n
read num
small=$num
large=$num
for i in `seq $((n-1))`
do
    read num
    if [ $num -lt $small ]
    then
        small=$num
    elif [ $num -gt $large ]
    then
        large=$num
    fi
done

```

```
echo "small=$small"
echo "large=$large"
```

```
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```

7. WAP to print all the even numbers from 1 to 100.

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
Date:15-09-2022
Description:to print all the even numbers from 1 to 100
Sample i/p:
Sample o/p:
Doc
```

```
read -p "Enter the number1: " M
read -p "Enter the number2: " N
#M=$((M+1))
#N=$((N-1))
while [ $M -le $N ]
do
    if [ `expr $M % 2` -eq 0 ]
then
    echo "$M"
fi
M=`expr $M + 1`
done
```

```
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*****-----
--
```

8. WAP to print the 'n' Fibonacci terms.

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
```

Date:
Description:
Sample i/p:
Sample o/p:
Doc

```
echo "Enter the number"
read n
num1=0
num2=1
count=2
echo " numbers upto $n terns "
echo "$num1"
echo "$num2"
while [ $count -lt $n ]
do
    count=`expr $count + 1`
    a=`expr $num1 + $num2`
    echo "$a"
    num1=$num2
    num2=$a
done
```

```
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```

9. WAP to check whether a number is palindrome or not.

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
Date:
Description:
Sample i/p:
Sample o/p:
Doc
```

```
echo "Enter number"
read num
```

```

for i in $num
do
    a=`expr $num % 10`
    b=`expr $a \* 10`
    c=`expr $b + 2`
    d=`expr $c \* 10`
    e=`expr $d + 1`
done

if [ $e = $num ]
then
    echo " number is palindrone "
else
    echo " number is not palindrone "
fi

```

```

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```

10. WAP to check whether a given number is prime or not.

```

#!/bin/bash
<<Doc
Name:Jagadeesh
Date:
Description:
Sample i/p:
Sample o/p:
Doc

echo " Enter the Number "
read n
count=0
while [ $i -le `expr $number / 2` ]
do
    if [ `expr $number % $i` -eq 0 ]
    then
        count=1
    fi
    i=$((i+1))
done

```

```
if [ $count -eq 1 ]
then
    echo "$number is not a prime number"
else
    echo "$number is a prime number"
fi
```

11. WAP to print the pattern as follows if input is 5:

```
#!/bin/bash
```

```
<<Doc
Name:Jagadeesh
Date:
Description:
Sample i/p:
Sample o/p:
Doc
```

```
echo " Enter the number "
read n
for i in `seq $n`
do
    for j in `seq $(( ${n} - ${i} ))`
    do
        echo -n " "
    done
    for k in `seq $-i`
    do
        echo -n "*"
    done
    echo
done
```