

## Assignment – Shell scripting

```
#!/bin/bash

for i in {1..10}; do
    echo $i
done
```

```
#!/bin/bash

i=1
while [ $i -le 5 ]; do
    echo $i
    i=$((i+1))
done
```

```
#!/bin/bash

read -p "Enter a number: " num

if (( num % 2 == 0 )); then
    echo "The number is even."
else
    echo "The number is odd."
fi
```

```
#!/bin/bash

read -p "Enter the value of n: " n

for ((i=1;i<=n;i++)); do
    for ((j=1;j<=10;j++)); do
        echo -n "${i*j} "
    done
    echo ""
done
```

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~
```

```
#!/bin/bash

read -p "Enter an operator (+, -, *, /): " operation
read -p "Enter two operands: " n1 n2

if [ "$operation" == "+" ]; then
    echo " $n1 + $n2 = $(echo "$n1 + $n2" | bc)"
elif [ "$operation" == "-" ]; then
    echo " $n1 - $n2 = $(echo "$n1 - $n2" | bc)"
elif [ "$operation" == "*" ]; then
    echo " $n1 * $n2 = $(echo "$n1 * $n2" | bc)"
elif [ "$operation" == "/" ]; then
    echo " $n1 / $n2 = $(echo "scale=2; $n1 / $n2" | bc)"
else
    echo "Error! operator is not correct"
fi
```

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```

Output:-

```

pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file3.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file4.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file1.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file1.sh
Enter the value of n:
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file1.sh
Enter the value of n: 4
1 2 3 4 5 6 7 8 9 10
2 4 6 8 10 12 14 16 18 20
3 6 9 12 15 18 21 24 27 30
4 8 12 16 20 24 28 32 36 40
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file.sh
bash: ./file.sh: Permission denied
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file.sh
Enter a number: 3
The number is odd.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file2.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file3.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file4.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file2.sh
./file2.sh: line 1: i#!/bin/bash: No such file or directory
1
2
3
4
5
6
7
8
9
10
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file2.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file3.sh
./file3.sh: line 1: i#!/bin/bash: No such file or directory
1
2
3
4
5
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ chmod 755 file2.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file2.sh
1
2
3
4
5
6
7
8
9
10
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file3.sh
./file3.sh: line 1: i#!/bin/bash: No such file or directory
1
2
3
4
5
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file3.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file4.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ ./file4.sh
Enter an operator (+, -, *, /): +
Enter two operands: 2 4
2 + 4 = 6
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ vi file4.sh
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads/shellScript$ 

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```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 2 + 1
3
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 3 - 1
2
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 10 / 5
2
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 10 \* 3
30
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 10 /* 3
expr: syntax error: unexpected argument '/bin'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo `expr 6 + 3`
9
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo 20 % 3
20 % 3
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ expr 20 % 3
2
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo "Today is date"
Today is date
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo "Today is 'date'"
Today is 'date'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo "Today is `date`"
Today is Saturday 04 February 2023 08:07:19 PM IST
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$ echo current `time`
real    0m0.000s
user    0m0.000s
sys     0m0.000s
current
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/DTL/DtIshell$
```