

#Assignment-6 (28/5/2021): Shell Script

#1.to print message

```
echo "Hello all! "  
printf "\n"
```

#2.To accept value from user

```
echo "Enter the value:"  
read val  
echo "Value is $val"  
printf "\n"
```

#3.To add 2 nos.

```
echo "Addition Program for initialized values"  
#Add 10 with 20 and store the value in n  
((n=20+10))  
#Print the value of n  
echo "The sum is $n"  
printf "\n"
```

#4.Script to add 2 nos. accepted from user

```
echo "Addition Program for 2 numbers accepted from the user"  
echo "Enter 1st number:"  
read Num1  
echo "Enter 2nd number:"  
read Num2  
((ns=Num1+Num2))  
echo "The sum is $ns"  
printf "\n"
```

#5.Script to check no. Is even or odd.

```
echo "Script to check no. Is even or odd."  
echo "Enter number to check if it is even or odd:"  
read num  
echo "The value is $num"  
if (( $num % 2 == 0 ))  
then  
echo "The number is even"  
else  
echo "The number is odd"  
fi  
printf "\n"
```

#6.Script to print 10,9,8.....1 using For-loop

```
echo "  
echo "Use of for loop for printing 10 to 1"  
for (( count=10; count>=1; count-- ))  
do  
echo -n "$count "  
done
```

#7.Shell Script for printing 1,2,.....10

```
#use of while loop
echo " "
echo " "
echo "Use of while loop for printing 1 to 10"
i=1
while [ $i -le 10 ]; do
echo -n "$i "
i=$(( $i+1 )) # increase number by 1
done
```

```
#8.To find bigger no. between 2 nos.
echo " "
echo " "
echo "To find bigger no. between 2 nos"
echo "Enter a number:"
read num1
echo "Enter 2nd number:"
read num2
if [[ $num1 -gt $num2 ]]
then
echo "$num1 is greater than $num2"
else
echo "$num2 is greater than $num1"
fi
```

```
***Do menu driven script for calculator (+,-,*,/,%)
echo " "
echo "Calculator for performing +,-,*,/,%"
```

```
echo " "
echo "Enter 1st number:"
read num_1

echo "Enter 2nd number:"
read num_2
for ((i = 0 ; i < 5 ; i++)); do
echo " "
echo "Enter 1 for adding 2 numbers"
echo "Enter 2 for subtracting 2 numbers"
echo "Enter 3 for multiplying 2 numbers"
echo "Enter 4 for dividing 2 numbers"
echo "Enter 5 for finding remainder on division of 2 numbers"
printf "\n"
echo "Enter your choice:"
read ch
```

```
echo " "
```

```
case $ch in
1)echo "Addition"
(( sum=num_1+num_2 ))
echo "Sum is $sum"
;; # break statement in Shell-script
```

```

2)echo "Subtraction"
((diff=num_1-num_2 ))
echo "Difference is $diff"
;; # break statement in Shell-script

3)echo "Multiplication"
(( pro=num_1*num_2 ))
echo "Product is $pro"
;; # break statement in Shell-script

4)echo "Division"
(( quotient=num_1/num_2 ))
echo "Quotient is $quotient"
;; # break statement in Shell-script

5)echo "Remainder"
(( rem=num_1%num_2 ))
echo "Remainder is $rem"
;; # break statement in Shell-script
esac # closing of case-control-structure (Reverse of case is “esac”)
done

```

OUTPUT

Hello all!

Enter the value:

5

Value is 5

Addition Program for initialized values

The sum is 30

Addition Program for 2 numbers accepted from the user

Enter 1st number:

21

Enter 2nd number:

12

The sum is 33

Script to check no. Is even or odd.

Enter number to check if it is even or odd:

24

The value is 24

The number is even

Use of for loop for printing 10 to 1

10 9 8 7 6 5 4 3 2 1

Use of while loop for printing 1 to 10

1 2 3 4 5 6 7 8 9 10

To find bigger no. between 2 nos

Enter a number:

23

Enter 2nd number:

32

32 is greater than 23

Calculator for performing +,-,*,/,%

Enter 1st number:

2

Enter 2nd number:

4

Enter 1 for adding 2 numbers

Enter 2 for subtracting 2 numbers

Enter 3 for multiplying 2 numbers

Enter 4 for dividing 2 numbers

Enter 5 for finding remainder on division of 2 numbers

Enter your choice:

1

Addition

Sum is 6

Enter 1 for adding 2 numbers

Enter 2 for subtracting 2 numbers

Enter 3 for multiplying 2 numbers

Enter 4 for dividing 2 numbers

Enter 5 for finding remainder on division of 2 numbers

Enter your choice:

2

Subtraction

Difference is -2

Enter 1 for adding 2 numbers

Enter 2 for subtracting 2 numbers

Enter 3 for multiplying 2 numbers

Enter 4 for dividing 2 numbers

Enter 5 for finding remainder on division of 2 numbers

Enter your choice:

3

Multiplication

Product is 8

Enter 1 for adding 2 numbers

Enter 2 for subtracting 2 numbers

Enter 3 for multiplying 2 numbers

Enter 4 for dividing 2 numbers

Enter 5 for finding remainder on division of 2 numbers

Enter your choice:

4

Division

Quotient is 0

Enter 1 for adding 2 numbers

Enter 2 for subtracting 2 numbers

Enter 3 for multiplying 2 numbers

Enter 4 for dividing 2 numbers

Enter 5 for finding remainder on division of 2 numbers

Enter your choice:

5

Remainder

Remainder is 2