

ASSIGNMENT - 03

1. Write a shell script to print message : "This is my first shell script" and also the system date and time in the following format :
"Today's date is DD:MM:YY" "
Now the time is HH:MM:SS

Code:

```
echo "This is my first shell script"
current_date="Today's date is `date +%d:%m:%Y`";
current_time="Now the time is `date +%H:%M:%S`";
echo $current_date;
echo $current_time;
```

```
mohan@Mohan:~/Downloads/assign3/mohan$ ./first.sh
This is my first shell script
Today's date is 20:01:2024
Now the time is 20:51:29
```

2. Write a shell script which takes two strings as inputs, concatenates them and displays the resulting string.

Code:

```
read -p "enter the first string : " str1
read -p "enter the second string : " str2
str1+=$str2;
echo "$str1"
```

```
mohan@Mohan:~/Downloads/assign3/mohan$ ./second.sh
enter the first string : mohan
enter the second string : manjhi
mohanmanjhi
```

3. Write a shell script which reads three inputs a,b,c and calculates d,e,f as following, and displays their values:
i. $d = a+b+c$
ii. $e = (a-b)*c$
iii. $f = (a*b)/c$

CODE:

```
read -p "Enter the value of a : " a
read -p "Enter the value of b : " b
read -p "Enter the value of c : " c
d=$((a+b+c))
e=$((a-b)*c)
f=$((a*b)/c)
echo "a + b + c : $d"
echo "(a - b) * c : $e"
echo "(a * b) / c : $f"
```

```
mohan@Mohan:~/Downloads/assign3/mohan$ ./third.sh
Enter the value of a : 10
Enter the value of b : 7
Enter the value of c : 13
a + b + c : 30
(a - b) * c : 39
(a * b) / c : 5
```

4. Write a shell script to calculate average of set of N numbers; numbers given as input.

CODE:

```
echo "Enter number"
read n
i=1
sum=0

echo "Enter num "
for((i=1; i<=n; i++))
do
read num
sum=$((sum+num))
done
sum=$((sum/n))
echo "The avg of given number is : $sum"
```

```
mohan@Mohan:~/Downloads/assign3/mohan$ ./fourth.sh
Enter number
5
Enter num
1
2
3
4
5
The avg of given number is : 3
```

5. Write shell script which takes three numbers as input and finds largest among them.

CODE:

```
echo "enter the numbers "
read a
read b
read c

if [ $a -gt $b ] && [ $a -gt $c ]
then
    echo $a
elif [ $b -gt $a ] && [ $b -gt $c ]
then
    echo $b
elif [ $c -gt $a ] && [ $c -gt $b ]
then
    echo $c
fi
```

```
mohan@Mohan:~/Downloads/assign3/mohan$ ./fifth.sh
enter the numbers
10
12
3
12
```

6. Write a shell script which accepts a string from terminal, echoes a suitable message if it doesn't have at least 10 characters.

CODE:

```
echo "Enter a String"
read String
len=`echo -n $String | wc -c`
if [ $len -lt 10 ]
then
    echo "String is less than 10"
fi
```

```
mohan@mohan:~/Downloads/assign3/mohan$ ./sixth.sh
Enter a String
mohan
String is less than 10
```

7. Write a shell script to find out the factorial of given number.

CODE:

```
read num
sum=1
for((i=1;i<=num;i++))
do
    sum=$((sum*i))
done
echo $sum
```

```
mohan@mohan:~/Downloads/assign3/mohan$ ./seven.sh
5
120
```

8. Write a shell script to accept the percentage marks of the students and then to display the division.

Use case statement for the same.

CODE:

```
echo "Test Score"
read score

case $score in
    100) echo "A" ;;
    9[0-9]) echo "A" ;;
    8[0-9]) echo "B" ;;
    7[0-9]) echo "C" ;;
    6[0-9]) echo "D" ;;
    *) echo "F" ;;
esac
```

```
mohan@mohan:~/Downloads/assign3/mohan$ ./eight.sh
Test Score
99
A
```

9. Write a shell script to copy the contents of an array to another array and also display the same.

CODE:

```
echo "old"  
original=("Anushtha","Harshita","Mohan")  
  
copy=${original[*]}  
echo $original  
echo "copy"  
echo $copy ${copy[1]}
```

```
mohan@mohan:~/Downloads/assign3/mohan$ ./nine.sh  
old  
Anushtha,Harshita,Mohan  
copy  
Anushtha,Harshita,Mohan
```