Assignment O.S.

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1 write a shell script program to check if the two variables equal or not, using if--else statement.

2 write a shell script program to check if the two variables equal or not, using case.esac (switch) statement.

3 write a shell script program to implement For Loop with break statement.

4 write a shell script program to implement For Loop with continue statement.

5 write a shell script program to print 0 to 9 numbers using less than (-lt) operator using while Loop.

6. write a shell script program to print 0 to 9 numbers using greater than (-gt) operator using while Loop.

7. write a shell script program to check if the File does not exist.

8 write a shell script program to check whether the File exists or

or not using if/then construct.

9. write a shell script program to redirect the output of multiple commands to a single file without deleting the variable data.

10. write a shell script program to read the file content using the script.

11. write a shell script program to concatenate string inside the bash (shell) using an array.

12. write a shell script program to shorten a string from left ~~side~~ and right (shift loop pyramid).

13. write a shell script program to reverse a string in bash (shell).

14 write a shell script program to print length of a string in bash (shell).

1 write a shell script program to check if the two variables equal or not using. if...else statement.

Ans→

```
echo " Enter the two number."
read a
read b

if [ "$a" == "$b" ]
then
        echo " The Given number is same"
else
        echo " The Given number is not
                same"
Fi
```

/* output.

```
akshay@akshay-Inspiron-3576 :~/
Assignment04 $ vim same.sh.

akshay@akshay-Inspiron-3576 :~/
Assignment04 $ sh same.sh
Enter the number two number
10
10
the Given number is same.
```

*/

2 write a shell script program to check if the two variables equal or not. using case.esac (switch) statement.

Ans →

```
Var = 0

#case 1 "0") a=5, b=5

    if ['$a' == $b ] then
    echo "The Given number is same"
    Fi

# case 2 "1") a=b, b=6

    if ['$a' == $b] then.
    echo "The given number is not same"
    Fi

esac

/* output

@ The given number is same".

*/
```

2. write a Shell script program to implement for Loop with break statement.

ANS→

```
For i in {1..3}; do
    For j in {1,3}; do
        if[[ $j -eq 2 ]] ; then
        break
    Fi
    echo " j = $j "
done
    echo " i = $i "
done
    echo " All done"
```

/* output

```
j = 1
i = 1
j = 1
i = 2
j = 1
i = 3
All done
*/
```

4 write a shell script program to implement for loop with continue statement.

Ans →

```
For i in {1, 50}; do.
    if[[ $(($i%9))-ne 0]]; then.
      continue.
    fi
    echo" devisible by 9 = $i "
done
```

```
# output

divisible by 9 = 9.
devisible by 9 = 18
divisible by 9 = 27.
divisible by 9 = 36.
divisible by 9 = 45.

#/
```

5. write a shell script program to print 0 to 9 numbers using less than (-lt) operator using while loop.

Ans→

```
a=0

while ['$a' -lt 10]
   do
      echo "$a"
      a='expr $a +1'
   done.

/* output

0
1
2
3
4
5
6
7
8
9.

*/.
```

6 write a shell script program to print 0 to 9 numbers using greater than operator (-gt) using while loop.

Ans →

```
a=0

while [ $a -gt 10]
    do
     echo " $a "
     a= `expr $a + 1`
    done

/* output

0
1
2
3
4
5
6
7
8
9.

*/.
```

7. Write a shell script program to check if the file does not exist

Ans→

```
File = "$1"

if [-f "$File"]
 then
      echo "File $File is exist"
else
      echo "File $File is not exist"
fi

/* output

File. /etc/hosts. does not exist.

*/.
```

8. write a shell script program to check whether the file exist or not using if then construct.

Ans→

```
File = "/etc/hosts"

if [-f "$File"].
then
        echo "$File found"
else
        echo "$file not found"
Fi

/* output

/etc/hosts found

*/
```

9. write a shell script program to redirect the output of multiple commands to a single file without deleting the variable data.

Ans→

```
exec 2 > myerror
echo " script begining"
echo " redirecting output"
echo " 1> myFile
echo " output goes to the my File"
echo " output goes to myerror File"> &2

/* output.

  $./myscript
     script Begining.
     redirecting output
    $ cat ./my File
      output goes to the my File
    $ cat :/ myerror
      output goes to myerror File.

*/
```

10. write a shell script program to read the file content using the script.

Ans→

```
File = "read_file.txt"

i = 1
while readline
do
    echo "Line NO. $i : $line".
    i = $((i+1))
done < $File
```

/* output

```
Line NO 1 : wellcome.
Line NO 2 : I am In programming
            language.
Line NO 2 : Good bye
```

11 write a shell script program to calculate string inside the bash (shell) using an array.

Ans ⇒
```
arr = ( "value1" value2 $value3 )
echo "${arr[@]}"

/* output

value1 value2

*/
```

12 write a shell script program to shorten a string from left and right (shift loop pyramid).

Ans →

```
#!/bin/bash
{
    string = " AKshay "
    {
        For i in $((${#string}-1))
        do
        echo ${string:0:${#string}
            -1};
        done
    } | tac ;
    {
        For i in $(seq 0 $((${#string}-1))
        do
        echo ${string:${i}};
        done
    }
}
```

/* output

```
A
Ak
AKS
AKSh.
AKsha
```

Akshay
kshay
shay
hay
ay
y.

*/

13 write a shell script program to reverse a string in bash (shell).

Ans→

```
#!/bin/bash

input = "$1"
reverse = ""

len = {#input}
For ((i = $len-1 ; i >=0 ; i--))
do
    reverse := "$reverse ${output:
                1.}"
done
echo " $reverse."
```

/* output.

yashska

*/.

14 Write a shell script program to print length of a string in bash. (shell).

Ans→
```
echo "enter the string :"
read strval.
len = "expr " $strval" : '.*"

echo ".The length of the input string is $len"

(* output.

enter a string.

I am MCA first year student.

The length of the input string is 27.

*.
```