Bash Scripting Day 2 Task

1) For loop


```bash
#!/bin/bash

for i in {1..10}
do
        if (( $i % 2 == 0 ))
        then
                echo "$i is an even"
        else
                echo "$i is a odd"

        fi

done
```

-- INSERT --   10,13-27   All

i-0560aeeeee1df5050 (bashscript)

PublicIPs: 44.222.226.14   PrivateIPs: 172.31.19.68


```
*** System restart required ***
Last login: Wed Jun  5 11:16:47 2024 from 18.206.107.29
ubuntu@ip-172-31-19-68:~$ vi for.sh
ubuntu@ip-172-31-19-68:~$ chmod +x for.sh
ubuntu@ip-172-31-19-68:~$ ./for.sh
1 is odd
2 is even
3 is odd
4 is even
5 is odd
6 is even
7 is odd
8 is even
9 is odd
10 is even
ubuntu@ip-172-31-19-68:~$ vi while.sh
ubuntu@ip-172-31-19-68:~$ chmod +x while.sh
ubuntu@ip-172-31-19-68:~$ ./while.sh
./while.sh: line 17: syntax error: unexpected end of file
ubuntu@ip-172-31-19-68:~$ chmod +x while.sh
ubuntu@ip-172-31-19-68:~$ ./while.sh
./while.sh: line 17: syntax error: unexpected end of file
ubuntu@ip-172-31-19-68:~$ vi while.sh
```

i-0560aeeeee1df5050 (bashscript)

PublicIPs: 44.222.226.14   PrivateIPs: 172.31.19.68

2) IF Loop


```bash
#!/bin/bash

#Decision Making - File Check

file="Sample.txt"

if [ -f $file ]; then
        echo "File exists."
else
        echo "File does not exists."

fi
```

"if.sh" 14L, 151B   14,3-8   All

i-0560aeeeee1df5050 (bashscript)

PublicIPs: 44.222.226.14   PrivateIPs: 172.31.19.68

```
ubuntu@ip-172-31-19-68:~$ vi if.sh
ubuntu@ip-172-31-19-68:~$ chmod +x if.sh
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$ ./if.sh
File does not exists.
```

3) If Else Loop

```bash
#!/bin/bash

intA=20.5
intB=30.3

if [ intA -eq intB ]; then
        echo "intA is equal to intB"

else
        echo "intA is not equal to intB"

fi
```

-- INSERT --   12,2   All

i-0560aeeeee1df5050 (bashscript)   ✕

```
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$ vi ifelse.sh
ubuntu@ip-172-31-19-68:~$ chmod +x ifelse.sh
ubuntu@ip-172-31-19-68:~$ ./ifelse.sh
./ifelse.sh: line 6: [: intA: integer expression expected
intA is not equal to intB
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$
```

4) If Else If Loop

```bash
#!/bin/bash

intA=20.5
intB=30.3
if [ intA -eq intB ]; then
        echo "intA is equal to intB"

else
        echo "intA is not equal to intB"

fi
```

-- INSERT --   12,1   All

i-0560aeeeee1df5050 (bashscript)   ✕

PublicIPs: 44.222.226.14   PrivateIPs: 172.31.19.68

```
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$ vi ifelseif.sh
ubuntu@ip-172-31-19-68:~$ chmod +x ifelseif.sh
ubuntu@ip-172-31-19-68:~$ ./ifelseif.sh
The number is equal to 5
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$
```

5) While Loop


```bash
#!/bin/bash

counter=1
while [ $counter -lt 10 ]
do
        if (( $counter % 2 == 0))
        then
                echo "$counter is even"
        else
                echo "$counter is odd"
        fi

        (( counter++))
done
```

```
-- INSERT --                                                              6,1          All
```

```
ubuntu@ip-172-31-19-68:~$ ./sysinfo.sh
awk: cmd. line:1: {print  + }
awk: cmd. line:1:           ^ syntax error
cpu Usage: %
Memory Usage: 335 MB
Disk Space: 4.9G available
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$
ubuntu@ip-172-31-19-68:~$ vi while.sh

ubuntu@ip-172-31-19-68:~$ vi while.sh
ubuntu@ip-172-31-19-68:~$ chmod +x while.sh
ubuntu@ip-172-31-19-68:~$ ./while.sh
1 is odd
2 is even
3 is odd
4 is even
5 is odd
6 is even
7 is odd
8 is even
9 is odd
ubuntu@ip-172-31-19-68:~$
```