# **Assignment Sheet**



Assignment 1:- How to upload HTML web pages on the Apache2 web server in the EC-2 Instance? Please justify with step-by-step answers.

**Solution**: On the Ubuntu server installed EC2 instance we can run the following commands:

- Ubuntu server update sudo apt update
- Install apache2 sudo apt install apache2

Reference article: https://www.digitalocean.com/community/tutorials/how-to-install-the-apache-web-server-on-ubuntu-22-04

Assignment 2: Create readfile.sh in which you can read the information of PWD like size, permission, date time etc.

#### Solution:

```
#!/bin/bash
echo "Tell us what can we find for you:"
echo "1. Present working diretory"
echo "2. Display size of Current directory"
echo "3. Permission of currect directory"
echo "4. Current Date and time"
read -p "Enter your input between 1 to 4: " num
if [$num -eq 1]
then
pwd
elif [$num -eq 2]
then
du
elif [$num -eq 3]
then
ls -l
elif [$num -eq 4]
then
timedatectl
else
echo "Wrong input provided"
```

```
#!/bin/bash
echo "Tell us what can we find for you:"
echo "1. Present working diretory"
echo "2. Display size of Current directory"
echo "3. Permission of currect directory"
echo "4. Current Date and time"
read -p "Enter your input between 1 to 4: " num
if [ $num -eq 1 ]
then
pwd
elif [ $num -eq 2 ]
then
du
elif [ $num -eq 3 ]
then
ls -1
elif [ $num -eq 4 ]
then
timedatectl
else
echo "Wrong input provided"
fi
```

Assignment 3: Take input of name from the user and print Have a great day ahead {name}

### Solution:

```
#!/bin/bash
read -p "May I have your name please:" name
echo "Have a great day ahead $name"
Output

ubuntu@ip-172-31-91-105:~$ ./assignment.sh
May I have your name please:Deepak
Have a great day ahead Deepak
```

Assignment 4: Let's take a scenario of a fintech app program in which we want to have three separate outputs for 3 different situations:

- →The balance is less than zero
- →The balance is zero
- → The balance is above zero

For instance, in the following program, use the if, elif, and else statements to display different outputs in different scenarios:

Use the "if" condition to check if the balance is less than zero. If this condition evaluates to true, display the message using the echo command: "Balance is less than zero, please add more funds else you will be charged a penalty".

If the above condition does not match, then use the "elif" condition to check if the balance is equal to zero. If it evaluates to true, display the message: "Balance is zero, please add funds"

If none of the above conditions matches, use the "else" condition to display the: Your balance is above zero.

Solution: Created file by name balance.sh

## Output:

```
ubuntu@ip-172-31-91-105:~$ vim balance.sh
ubuntu@ip-172-31-91-105:~$ chmod +x balance.sh
ubuntu@ip-172-31-91-105:~$ ./balance.sh
Enter balance present in account:5
Your balance is above zero
ubuntu@ip-172-31-91-105:~$ ./balance.sh
Enter balance present in account:0
Balance is zero, please add funds
ubuntu@ip-172-31-91-105:~$ ./balance.sh
Enter balance present in account:-45
Balance is less than zero, please add more funds else you will be charged a penalty
```

```
#!/bin/bash
# Print a message about disk usage.
space_free=$( df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//' )
case $space_free in [1-5]*) echo Plenty of disk space available
[6-7]*) echo There could be a problem in the
near future
8*) echo Maybe we should look at clearing out old
files
9*) echo We could have a serious problem on our hands
soon
*)
echo Something is not quite right here ;;
```

Assignment 5: Debug and define briefly the following program:-

### Solution:

esac

## Output:

```
ubuntu@ip-172-31-91-105:~$ ./debug.sh
Plenty of disk space available
```