Linux Assignment

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Task 1:

1. Creating a directory

```
ubuntu@ip-10-0-0-24:~$ mkdir prathamesh
ubuntu@ip-10-0-0-24:~$ ls
prathamesh
```

2. Creating a file

```
ubuntu@ip-10-0-0-24:~/prathamesh$ touch devops.txt
ubuntu@ip-10-0-0-24:~/prathamesh$ ls
devops.txt
ubuntu@ip-10-0-0-24:~/prathamesh$ vi devops.txt

 Hello World

 |
 ~

ubuntu@ip-10-0-0-24:~/prathamesh$ cat devops.txt
Hello World
```

3. Copy File to Another Folder

```
ubuntu@ip-10-0-0-24:~$ cd prathamesh/
ubuntu@ip-10-0-0-24:~/prathamesh$ cp devops.txt /home/ubuntu
ubuntu@ip-10-0-0-24:~/prathamesh$ cd /home/ubuntu
ubuntu@ip-10-0-0-24:~$ ls
devops.txt   prathamesh
```

4. Move the content to the Another file

```
ubuntu@ip-10-0-0-24:~$ touch hello.txt
ubuntu@ip-10-0-0-24:~$ mv hello.txt /home/ubuntu/prathamesh
ubuntu@ip-10-0-0-24:~$ cd prathamesh
ubuntu@ip-10-0-0-24:~/prathamesh$ ls
devops.txt   hello.txt
```

5. Write a shell script that prints "Welcome to the world of Linux"

```
ubuntu@ip-10-0-0-24:~/prathamesh$ echo "hello World"
hello World
```

6. Change the permissions to above shell script to 755.

```
ubuntu@ip-10-0-0-24:~/prathamesh$ ./devops.sh
-bash: ./devops.sh: Permission denied
ubuntu@ip-10-0-0-24:~/prathamesh$ chmod 755 ./devops.sh
ubuntu@ip-10-0-0-24:~/prathamesh$ ./devops.sh
Hello World
```

7. Delete the created file

```
ubuntu@ip-10-0-0-24:~/prathamesh$ rm -r devops.sh
ubuntu@ip-10-0-0-24:~/prathamesh$ ls
devops.txt   hello.txt
```

Task 2:

Code:

```
  GNU nano 6.2                                                   prime_nos.sh
#!/bin/bash
echo "Enter a number: "
read number

# Check if the number is less than 2
if [ $number -lt 2 ]; then
    echo "$number is not a prime number."
    exit 1
fi

# Check if the number is divisible by any number from 2 to its square root
for ((i=2; i*i<=number; i++)); do
    if [ $((number%i)) -eq 0 ]; then
        echo "$number is not a prime number."
        exit 1
    fi
done

# If the number is not divisible by any number from 2 to its square root, then it is a prime number
echo "$number is a prime number."
```

Output:

```
ubuntu@ip-10-0-0-24:~$ ./prime_nos.sh
Enter a number:
9
9 is not a prime number.
ubuntu@ip-10-0-0-24:~$ ./prime_nos.sh
Enter a number:
7
7 is a prime number.
ubuntu@ip-10-0-0-24:~$ ./prime_nos.sh
Enter a number:
111
111 is not a prime number.
ubuntu@ip-10-0-0-24:~$ ./prime_nos.sh
Enter a number:
127
127 is a prime number.
```