

1. Execute commands for creating a directory, create 3 subdirectories inside it, create 3 files with content. List all details separately. Execute a shell script to find whether a given number is prime or not. Upload both programs with output to GitHub and share to corresponding staff.

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~/Desktop/mydirectory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ mkdir mydirectory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ ls
mydirectory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop$ cd mydirectory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ mkdir subdir1
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ mkdir subdir2
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ mkdir subdir3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls
subdir1  subdir2  subdir3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ cat file.txt
cat: file.txt: No such file or directory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ca > file.txt
ca: command not found
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ caaaaaaaaaaaaaaaaaaaaa > file.txt
caaaaaaaaaaaaaaaaaaaaa: command not found
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ cat > file.txt
WELCOME^C
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ touch file2.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ touch file3.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls
file2.txt  file3.txt  file.txt  subdir1  subdir2  subdir3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ cat > file2.txt
HELLO EVERYONE
^C
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ cat > file3.txt
HELLOO LINUX
^C
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls
file2.txt  file3.txt  file.txt  subdir1  subdir2  subdir3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls -a
.  ..  file2.txt  file3.txt  file.txt  subdir1  subdir2  subdir3
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls -a file1.txt
ls: cannot access 'file1.txt': No such file or directory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$ ls -a file.txt
file.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/Desktop/mydirectory$
```

Code:

```
#!/bin/bash

echo "Enter Number : "

read n

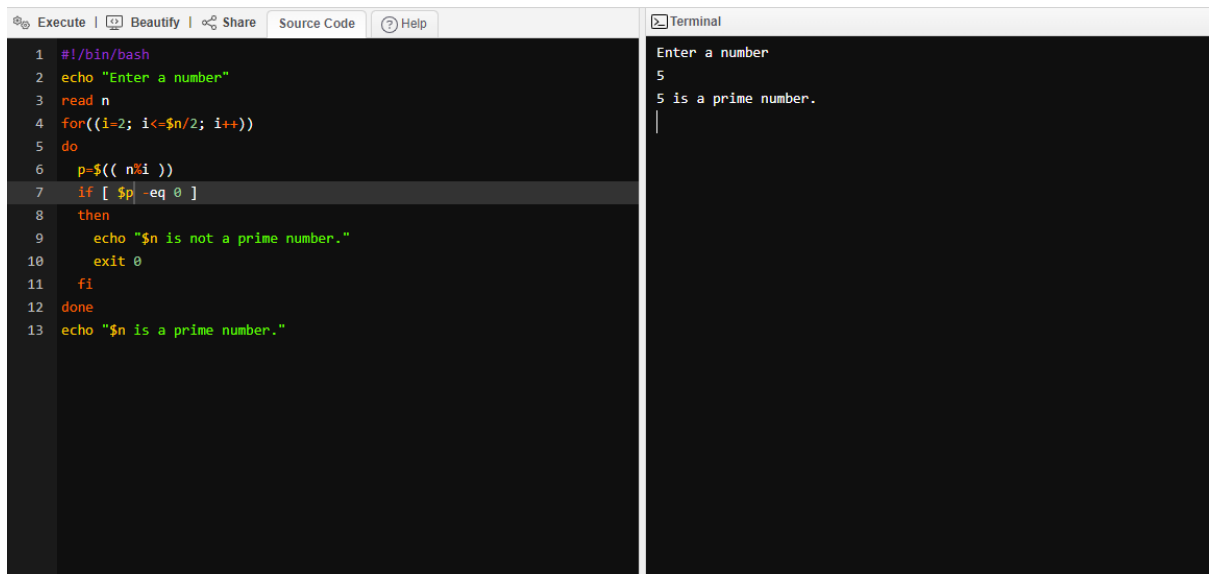
for((i=2; i<=$n/2; i++))
do
    p=$(( n%i ))
    if [ $p -eq 0 ]
    then
        echo "$n is not a prime number."
    exit 0
fi
done
```

```
fi
```

```
done
```

```
echo "$n is a prime number."
```

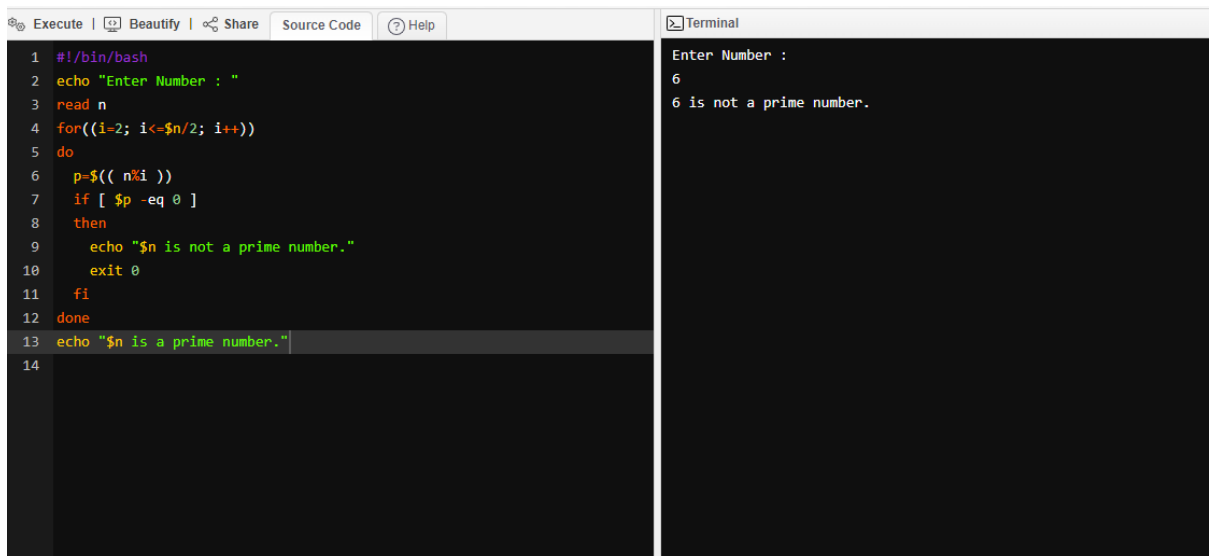
Output:



```
1  #!/bin/bash
2  echo "Enter a number"
3  read n
4  for((i=2; i<=$n/2; i++))
5  do
6      p=$(( n%i ))
7      if [ $p -eq 0 ]
8      then
9          echo "$n is not a prime number."
10         exit 0
11     fi
12 done
13 echo "$n is a prime number."
```

Terminal

```
Enter a number
5
5 is a prime number.
```



```
1  #!/bin/bash
2  echo "Enter Number : "
3  read n
4  for((i=2; i<=$n/2; i++))
5  do
6      p=$(( n%i ))
7      if [ $p -eq 0 ]
8      then
9          echo "$n is not a prime number."
10         exit 0
11     fi
12 done
13 echo "$n is a prime number."
14
```

Terminal

```
Enter Number :
6
6 is not a prime number.
```