1. Find the first 50 prime numbers using while, for and until loop. (10)

**//WHILE LOOP**

#!/bin/bash

echo "First 50 Prime Numbers using WHILE LOOP:"

count=0

num=2

while [ $count -ne 50 ];

do

prime=1

i=2

while [ $i -le $((num/2)) ];

do

if [ $((num % i)) -eq 0 ]; then

prime=0

break

fi

((i++))

done

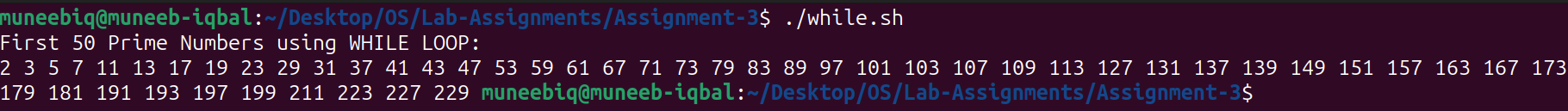
if [ $prime -eq 1 ]; then

echo -n "$num "

((count++))

fi

((num++))

done

**//FOR LOOP**

#!/bin/bash

echo "First 50 Prime Numbers using FOR LOOP:"

count=0

for((num=2;count<=50;num++));

do

prime=1

for((i=2;i<=num/2;i++));

do

if [ $((num % i)) -eq 0 ]; then

prime=0

break

fi

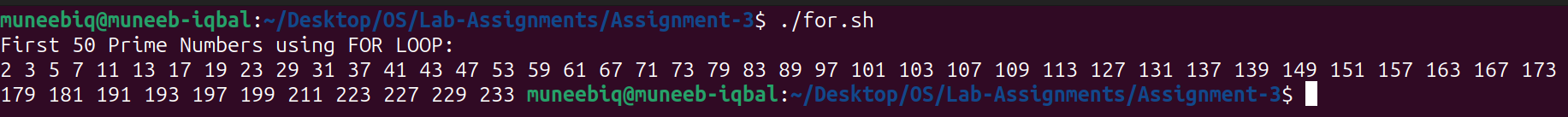
done

if [ $prime -eq 1 ]; then

echo -n "$num "

((count++))

fi

done

**//UNTIL LOOP**

#!/bin/bash

echo "First 50 Prime Numbers using UNTIL LOOP:"

count=0

num=2

until [ $count -eq 50 ];

do

prime=1

i=2

until [ $i -gt $((num/2)) ];

do

if [ $((num % i)) -eq 0 ]; then

prime=0

break

fi

((i++))

done

if [ $prime -eq 1 ]; then

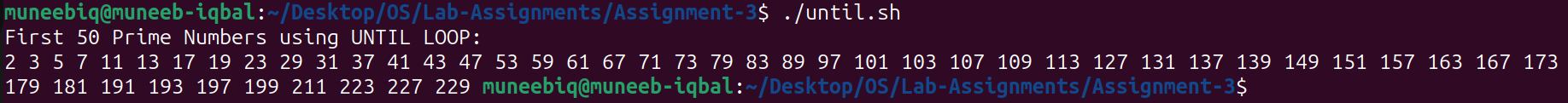
echo -n "$num "

((count++))

fi

((num++))

done



1. Write a shell script for 30 multiples of your roll no and prints only that number which is multiple of 5. (10)
2. Using Continue statement
3. Using Break statement

**//CONTINUE STATEMENT**

#!/bin/bash

echo "Multiples of (30) that are also the multiples of 5 using CONTINUE STATEMENT:"

count=0

num=30

while [ $count -lt 30 ];

do

((num += 30))

if [ $((num % 5)) -ne 0 ]; then

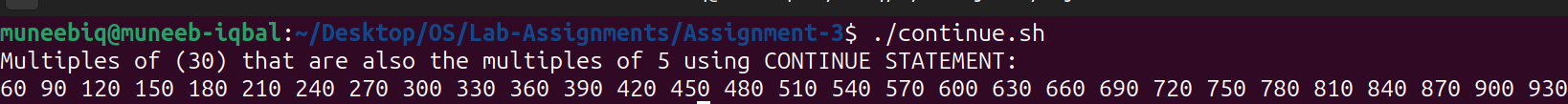
continue

fi

echo -n "$num "

((count++))

done



**//BREAK STATEMENT**

#!/bin/bash

echo "Multiples of (30) that are also multiples of 5 using BREAK STATEMENT:"

count=0

num=30

while [ $count -lt 30 ];

do

((num += 30))

if [ $((num % 5)) -eq 0 ]; then

echo -n "$num "

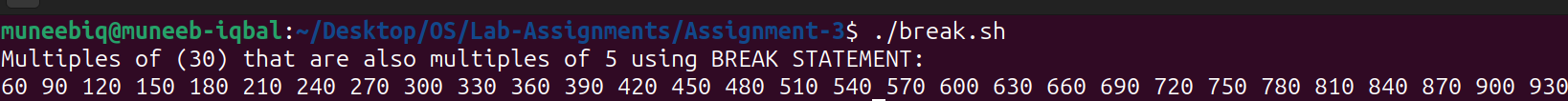
((count++))

fi

if [ $count -eq 30 ]; then

break

fi

done****