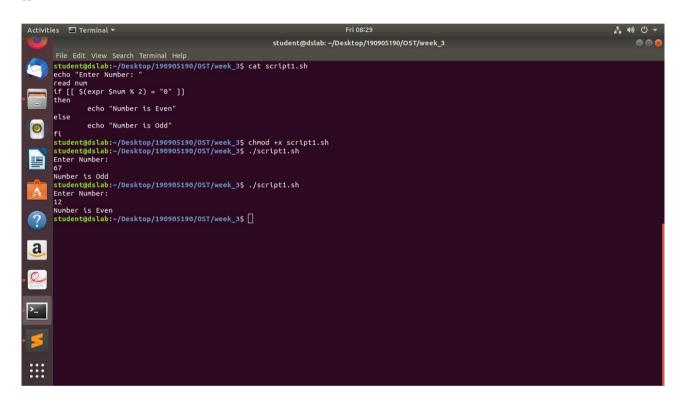
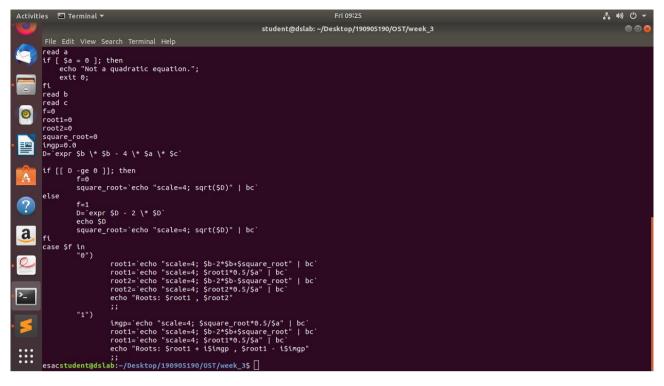
## OST LAB Lab 3

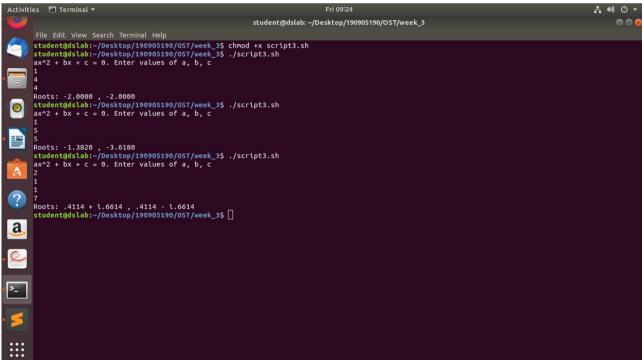
## Q1)



## **Q2)**

```
Code:
echo 'ax^2 + bx + c = 0. Enter values of a, b, c'
read a
if [$a = 0]; then
  echo "Not a quadratic equation.";
  exit 0;
fi
read b
read c
f=0
root1=0
root2=0
square_root=0
imgp=0.0
D=`expr $b \* $b - 4 \* $a \* $c`
if [[ D -ge 0 ]]; then
       f=0
       square_root=`echo "scale=4; sqrt($D)" | bc`
else
       f=1
       D=\ensuremath{`expr\ \$D - 2 \ \ \$D`}
       echo $D
       square_root=`echo "scale=4; sqrt($D)" | bc`
fi
case $f in
       "0")
               root1=`echo "scale=4; $b-2*$b+$square_root" | bc`
               root1=`echo "scale=4; $root1*0.5/$a" | bc`
               root2=`echo "scale=4; $b-2*$b-$square_root" | bc`
               root2=`echo "scale=4; $root2*0.5/$a" | bc`
               echo "Roots: $root1, $root2"
               ;;
       "1")
               imgp=`echo "scale=4; $square_root*0.5/$a" | bc`
               root1=`echo "scale=4; $b-2*$b+$square root" | bc`
               root1=`echo "scale=4; $root1*0.5/$a" | bc`
               echo "Roots: $root1 + i$imgp , $root1 - i$imgp"
esac
```





## Q4)

```
Activities Terminal **

Student@dslab:-/Desktop/190905190/05T/week_3

File Edit View Search Terminal Help

Student@dslab:-/Desktop/190905190/05T/week_3$ cat script4.sh

red do non

fai'x pr 5f \ 5 nun'

nun'expr 5nun - 1'

done

echo "Factortal: 5f"

Factortal: 57"

Factortal: 720

Fac
```