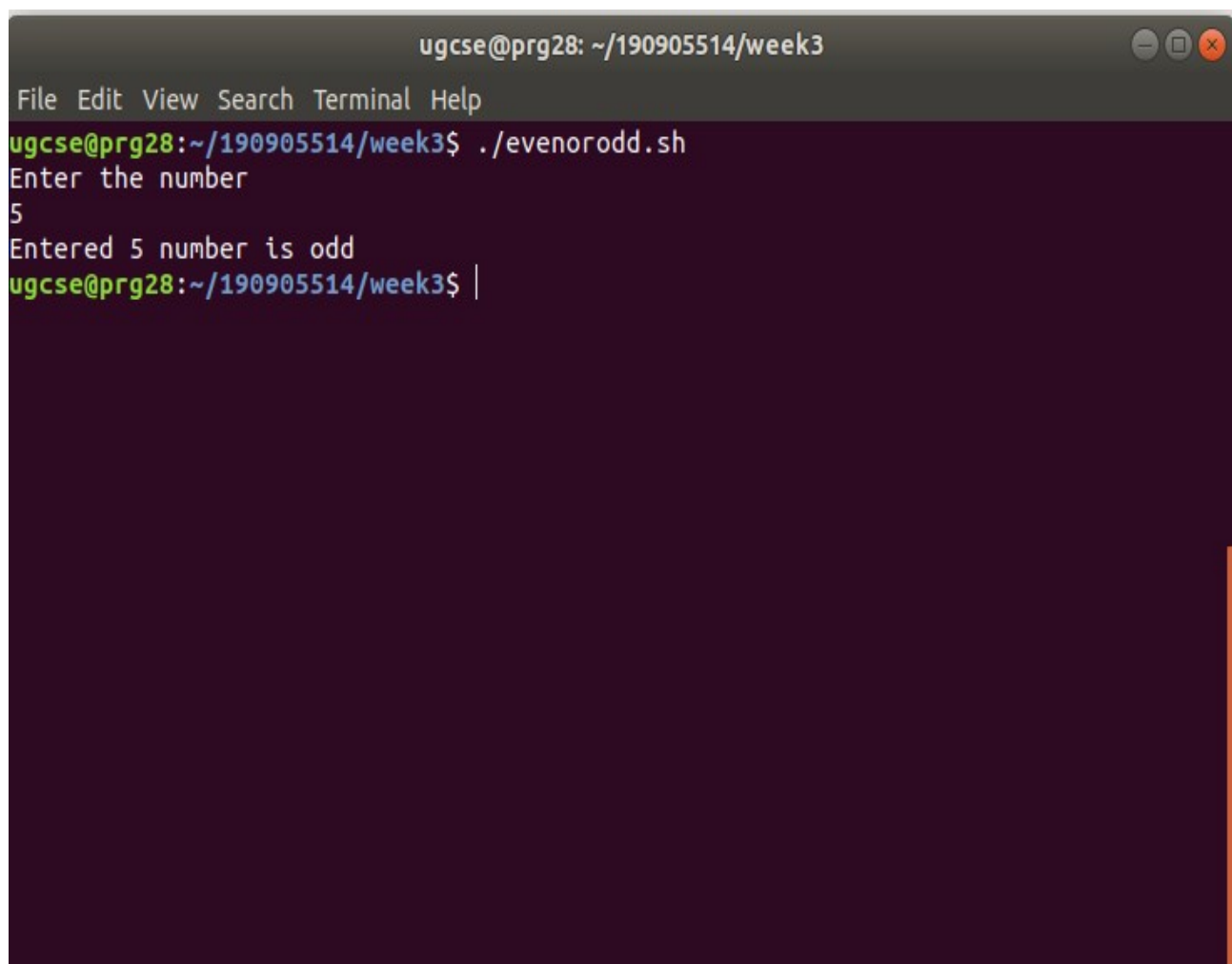


WEEK 3 LAB3

1.find whether given number is odd or not.

oddoeven.sh

```
echo "Enter the number "  
read number  
temp=$((number%2))  
if [ $temp -eq 1 ]  
then  
    echo "Entered $number number is odd "  
else  
    echo "Entered $number number is even "  
fi
```

OUTPUT :A terminal window with a dark background and light-colored text. The title bar at the top reads 'ugcse@prg28: ~/190905514/week3'. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal content shows the command './evenorodd.sh' being executed. The prompt 'ugcse@prg28:~/190905514/week3\$' is followed by the command. The output 'Enter the number' is displayed, followed by the input '5'. The script then outputs 'Entered 5 number is odd'. The prompt 'ugcse@prg28:~/190905514/week3\$' is followed by a vertical bar cursor.

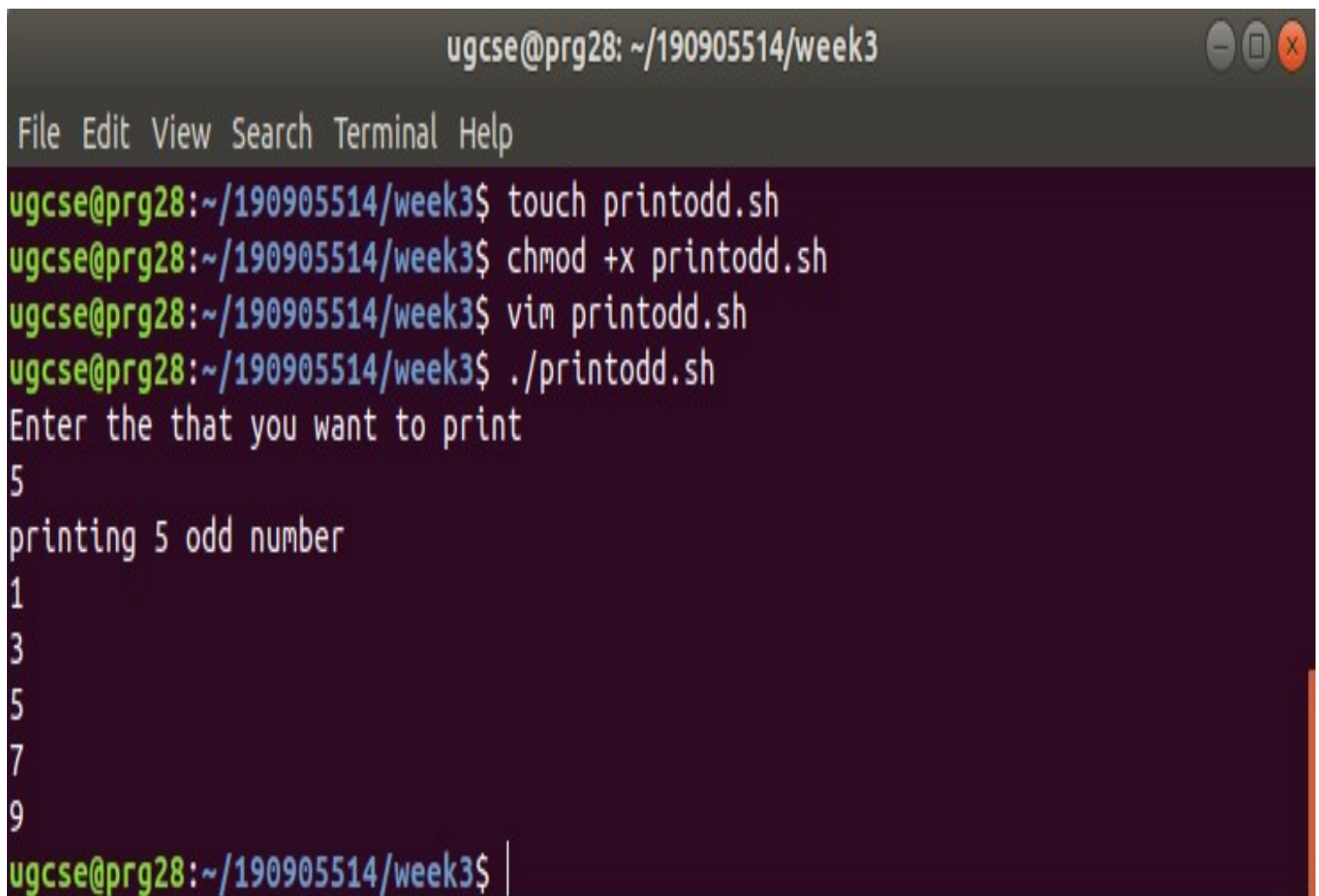
```
ugcse@prg28: ~/190905514/week3  
File Edit View Search Terminal Help  
ugcse@prg28:~/190905514/week3$ ./evenorodd.sh  
Enter the number  
5  
Entered 5 number is odd  
ugcse@prg28:~/190905514/week3$ |
```

2. Print first n odd number .

printodd.sh

```
echo "Enter the that you want to print "  
read oddnumber  
x=0  
odd=0  
echo "printing $oddnumber odd number "  
while [ $x -lt $oddnumber ]  
do  
    odd=`expr $x \* 2 + 1`  
    echo $odd  
    x=$((x+1))  
done
```

OUTPUT :

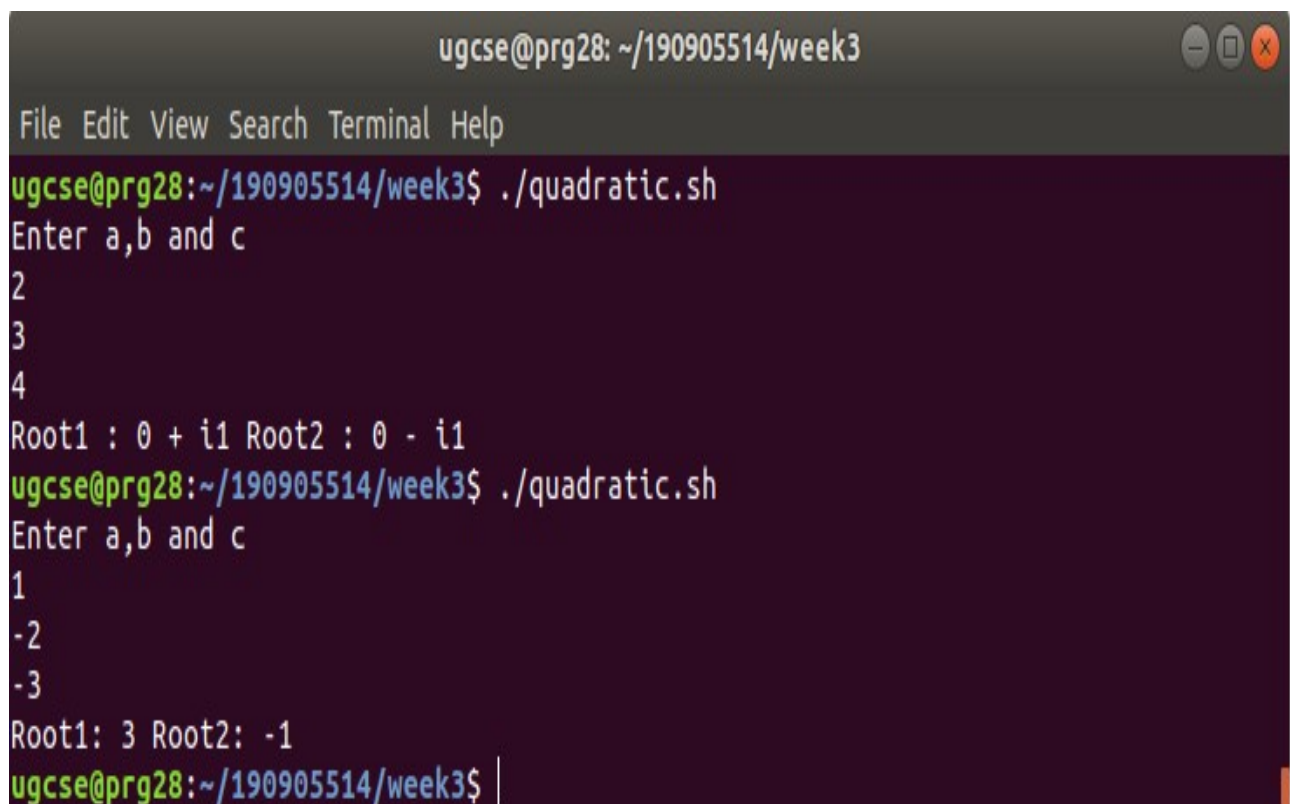
A terminal window titled 'ugcse@prg28: ~/190905514/week3' with standard window controls. The terminal shows the following commands and output:
File Edit View Search Terminal Help
ugcse@prg28:~/190905514/week3\$ touch printodd.sh
ugcse@prg28:~/190905514/week3\$ chmod +x printodd.sh
ugcse@prg28:~/190905514/week3\$ vim printodd.sh
ugcse@prg28:~/190905514/week3\$./printodd.sh
Enter the that you want to print
5
printing 5 odd number
1
3
5
7
9
ugcse@prg28:~/190905514/week3\$ |

3. Find all the quadratic equation using case .

quadratic.sh

```
echo "Enter a,b and c"
read a
read b
read c
d=`expr $b \* $b - 4 \* $a \* $c`
if [ $d -ge 0 ]
then quad="r"
else quad="i"
fi
case $quad in "r")
sqrt=`echo "scale=4;sqrt($d)" | bc` r1=`echo "(-1 * $b + $sqrt) / (2 * $a)" | bc` r2=`echo "(-1 * $b - $sqrt) / (2 * $a)" | bc`
echo "Root1: $r1 Root2: $r2" ;; "i")
de=`expr -1 \* $d`
sq=`echo "scale=4;sqrt($de)" | bc`
re=`echo "(-1 * $b) / (2 * $a)" | bc`
im=`echo "$sq / (2 * $a)" | bc`
echo "Root1 : $re + i$im Root2 : $re - i$im" ;;
esac
```

OUTPUT :



```
ugcse@prg28: ~/190905514/week3
File Edit View Search Terminal Help
ugcse@prg28:~/190905514/week3$ ./quadratic.sh
Enter a,b and c
2
3
4
Root1 : 0 + i1 Root2 : 0 - i1
ugcse@prg28:~/190905514/week3$ ./quadratic.sh
Enter a,b and c
1
-2
-3
Root1: 3 Root2: -1
ugcse@prg28:~/190905514/week3$
```

