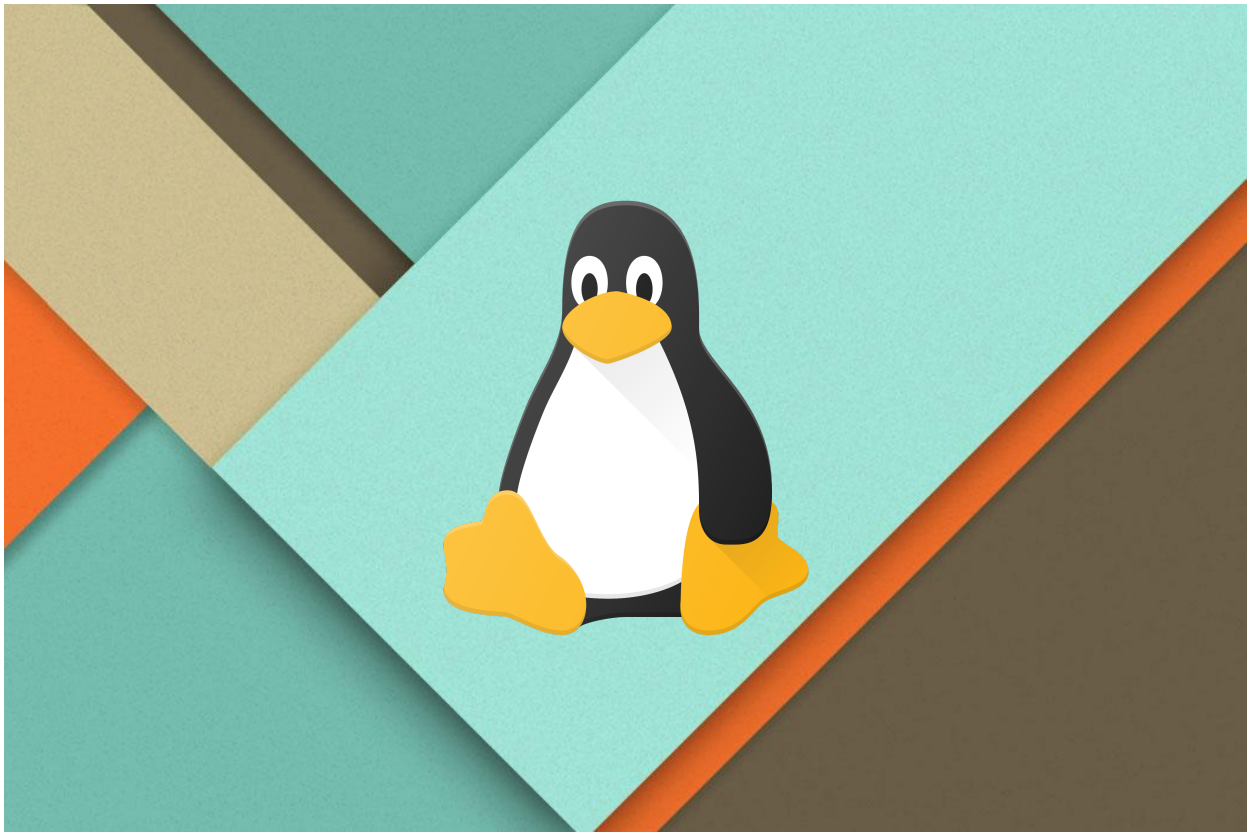

Operating Systems Lab

Experiment No. 2

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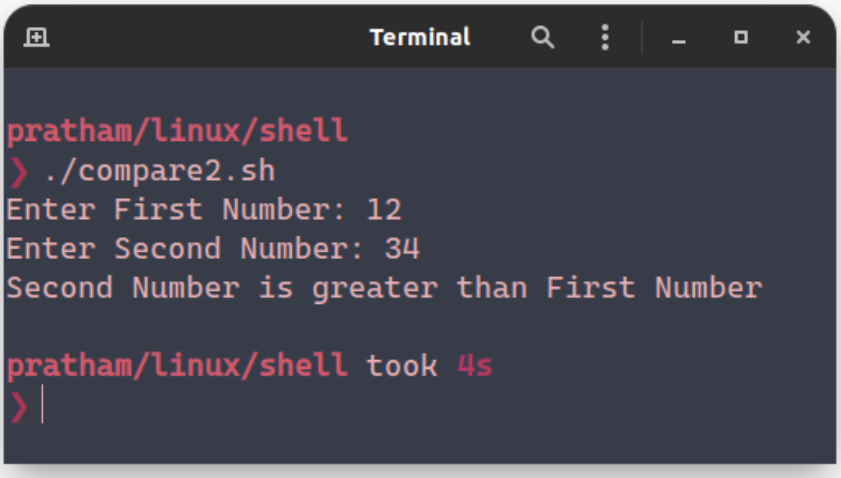
Aim 1

Write a shell script to find the greatest of two numbers.

Code

```
#!/usr/bin/bash
read -p "Enter First Number: " num1
read -p "Enter Second Number: " num2
if [ $num1 -gt $num2 ]
then
   echo "First Number is greater than Second Number"
elif [ $num1 -lt $num2 ]
then
   echo "Second Number is greater than First Number"
else
   echo "Both the Numbers are equal"
fi
```

Output



Aim 2

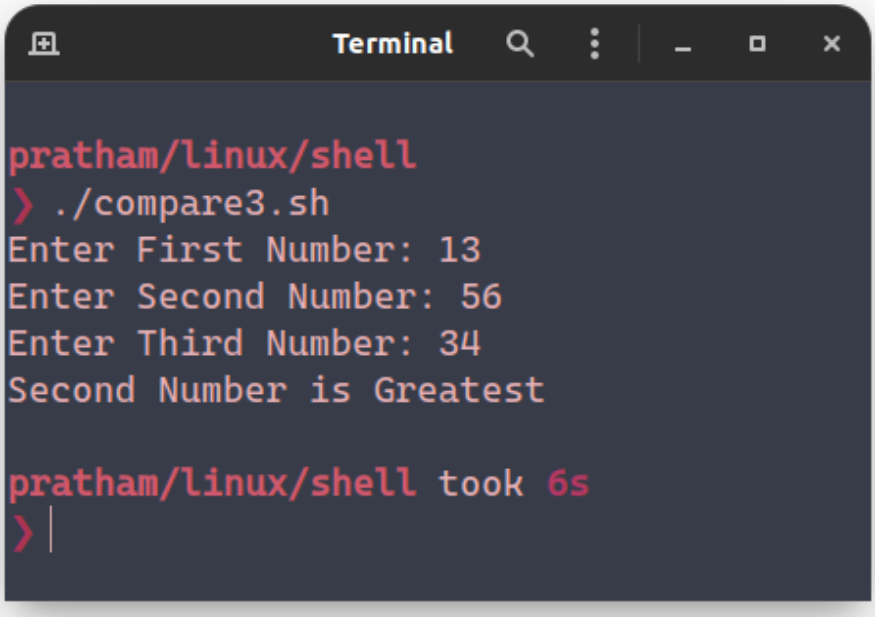
Write a shell script to find the greatest of three numbers.

Code

```
#!/usr/bin/bash
read -p "Enter First Number: " num1
read -p "Enter Second Number: " num2
read -p "Enter Third Number: " num3

if [ $num1 -gt $num2 ]
then
   if [ $num1 -gt num3]
   then
       echo "First Number is Greatest"
   else
       echo "Third Number is Greatest"
   fi
else
   if [ $num2 -gt $num3 ]
   then
       echo "Second Number is Greatest"
   else
       echo "Third Number is Greatest"
   fi
fi
```

Output


Terminal
pratham/linux/shell
❯ ./compare3.sh
Enter First Number: 13
Enter Second Number: 56
Enter Third Number: 34
Second Number is Greatest
pratham/linux/shell took 6s
❯

Aim 3

Write a shell script to print numbers from 1 to 10 using “for” and “while” loop

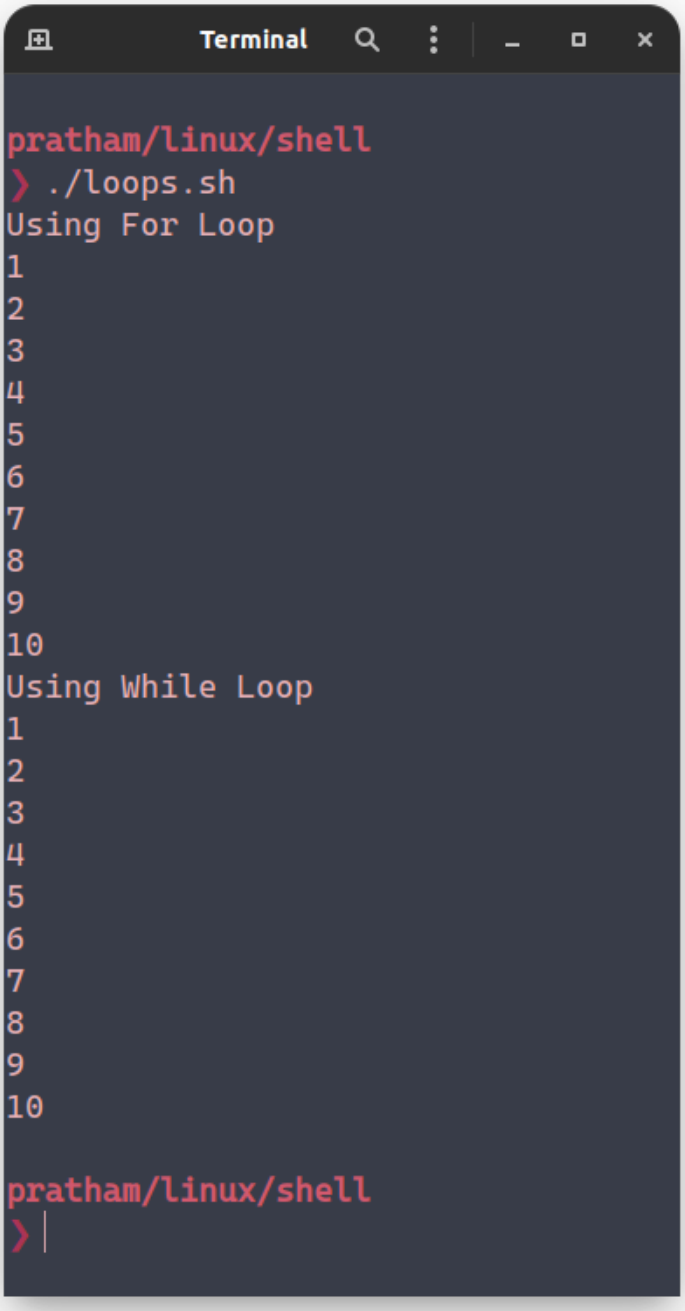
Code

```
#!/usr/bin/bash

echo "Using For Loop"
for (( i=1; i<=10; i++))
do
   echo "$i"
done

echo "Using While Loop"
i=1
while [ $i -le 10 ]
do
 echo "$i"
 ((i++))
done
```

Output


Terminal
pratham/linux/shell
❯ ./loops.sh
Using For Loop
1
2
3
4
5
6
7
8
9
10
Using While Loop
1
2
3
4
5
6
7
8
9
10
pratham/linux/shell
❯

Aim 4

Write a shell script to create a basic calculator which will perform addition, subtraction, multiplication and division of numbers entered by the user.

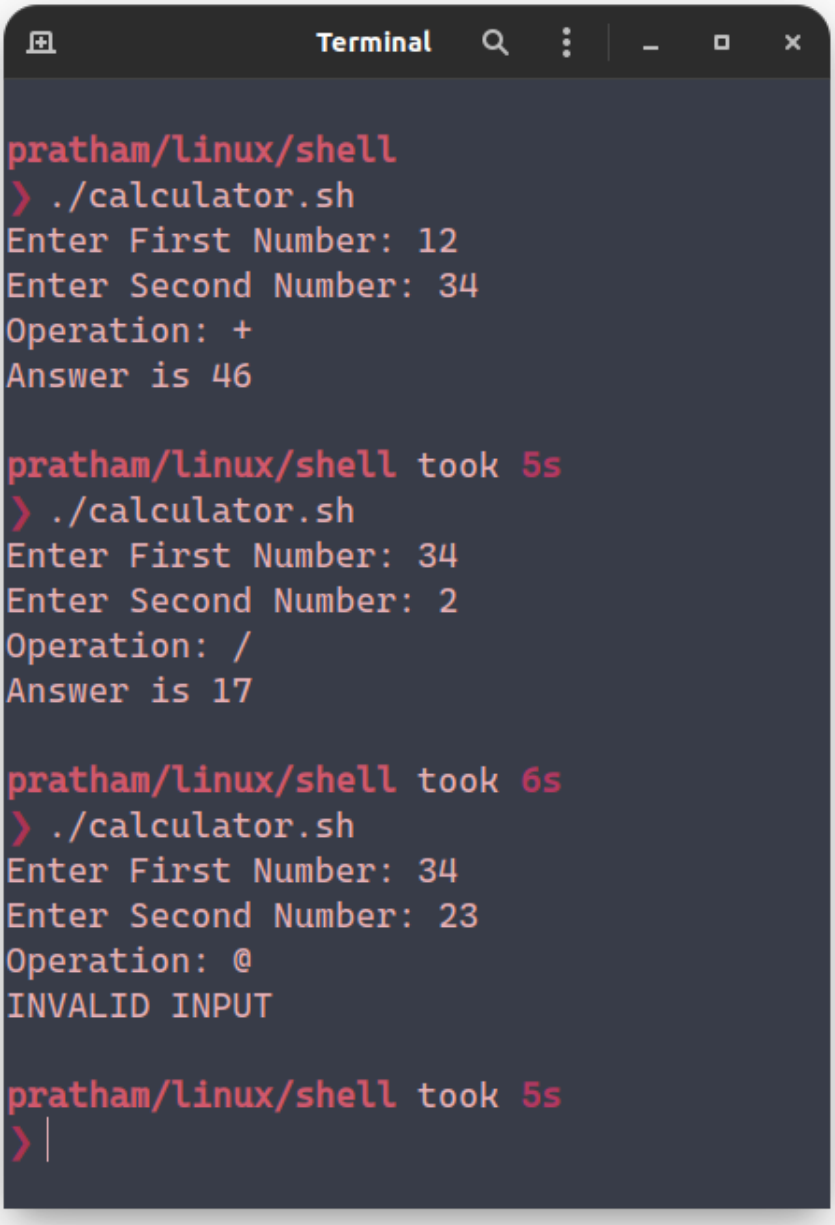
(Must ask to user what operation to perform)

Code

```
#!/usr/bin/bash
read -p "Enter First Number: " num1
read -p "Enter Second Number: " num2
read -p "Operation: " opr

if [[ $opr == '+' ]];
then
   ans=$(($num1 + $num2))
   echo "Answer is $ans"
elif [[ $opr == '-' ]];
then
   ans=$(($num1 - $num2))
   echo "Answer is $ans"
elif [[ $opr == '*' ]];
then
   ans=$(($num1 * $num2))
   echo "Answer is $ans"
elif [[ $opr == '/' ]];
then
   ans=$(($num1 / $num2))
   echo "Answer is $ans"
else
   echo "INVALID INPUT"
fi
```

Output


Terminal
pratham/linux/shell
❯ ./calculator.sh
Enter First Number: 12
Enter Second Number: 34
Operation: +
Answer is 46
pratham/linux/shell took 5s
❯ ./calculator.sh
Enter First Number: 34
Enter Second Number: 2
Operation: /
Answer is 17
pratham/linux/shell took 6s
❯ ./calculator.sh
Enter First Number: 34
Enter Second Number: 23
Operation: @
INVALID INPUT
pratham/linux/shell took 5s
❯

Aim 5

Write a shell script to create a text file (.txt) which will store your personal data including academic details in resume format.

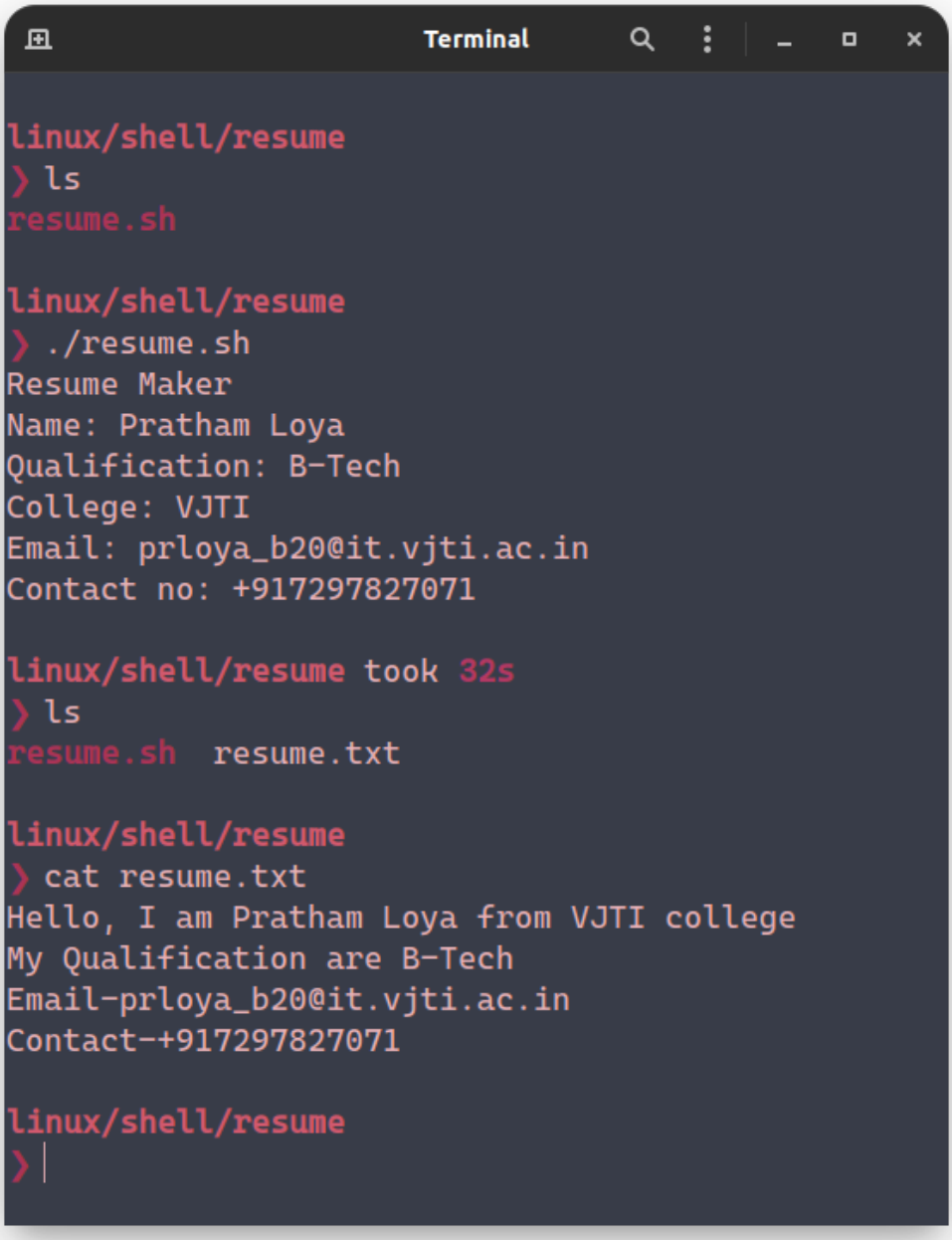
Code

```
#!/usr/bin/bash

echo "Resume Maker"
read -p "Name: " name
read -p "Qualification: " qwl
read -p "College: " col
read -p "Email: " eml
read -p "Contact no: " phn

echo -e "Hello, I am $name from $col college\nMy Qualification are
$qwl\nEmail-$eml\nContact-$phn" > resume.txt
```

Output


Terminal
linux/shell/resume
❯ ls
resume.sh
linux/shell/resume
❯ ./resume.sh
Resume Maker
Name: Pratham Loya
Qualification: B-Tech
College: VJTI
Email: prloya_b20@it.vjti.ac.in
Contact no: +917297827071
linux/shell/resume took 32s
❯ ls
resume.sh resume.txt
linux/shell/resume
❯ cat resume.txt
Hello, I am Pratham Loya from VJTI college
My Qualification are B-Tech
Email-prloya_b20@it.vjti.ac.in
Contact-+917297827071
linux/shell/resume
❯