PART C

Question 1: Write a shell script that prints "Hello, World!" to the terminal.

Command: --

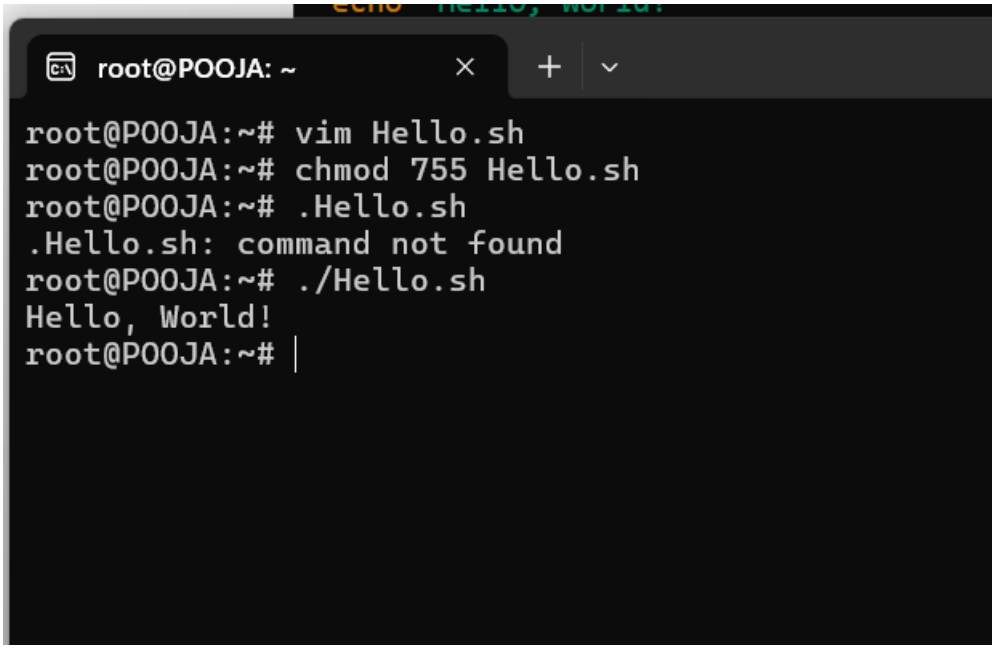
vim hello.sh

I use vim editor to enter data inside the script.

Chmod 775 Hello.sh

I use chmod command to give permission to file access.

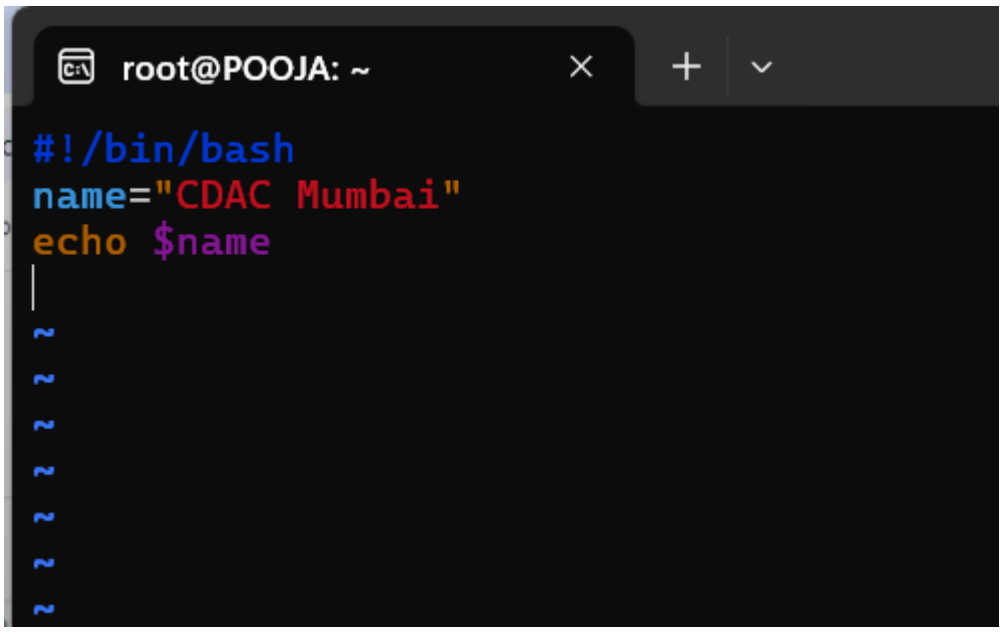
./hello.sh this is use for run script.

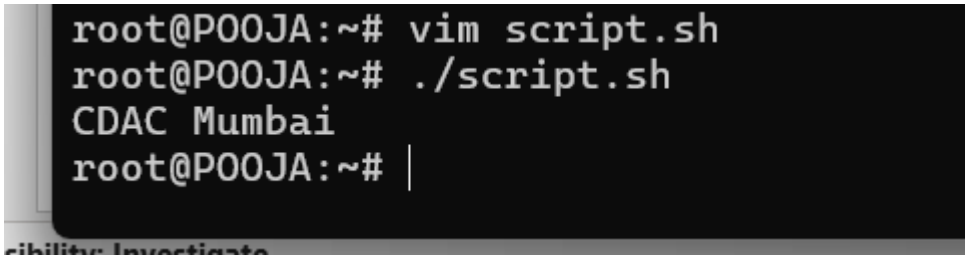


Question 2: Declare a variable named "name" and assign the value "CDAC Mumbai" to it. Print the value of the variable.

Command

The variable is assigned with name="CDAC Mumbai" and is printed using echo $name. The value "CDAC Mumbai" is displayed when the script is run.

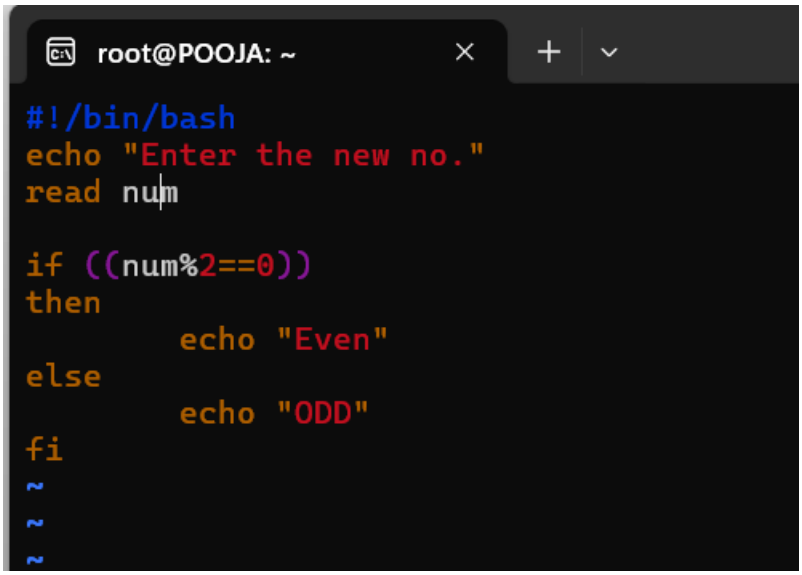


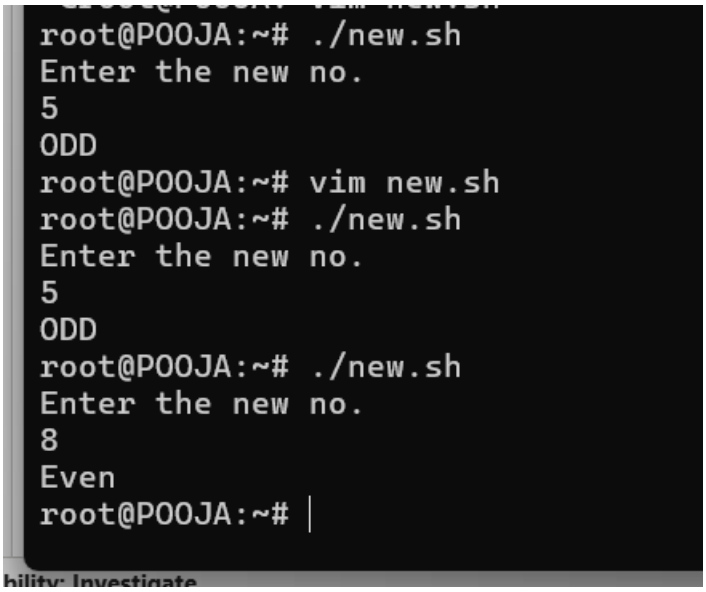


Question 3: Write a shell script that takes a number as input from the user and prints it.

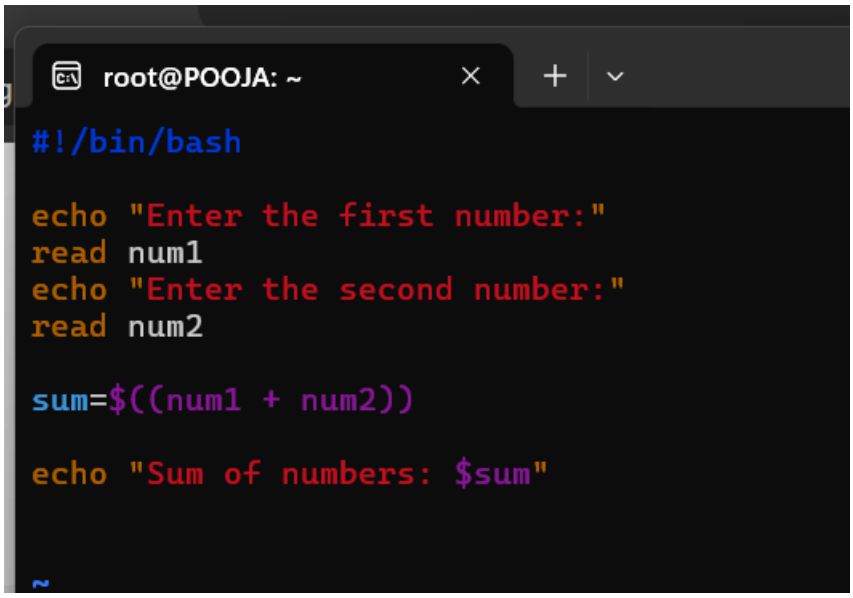
Explanation :--

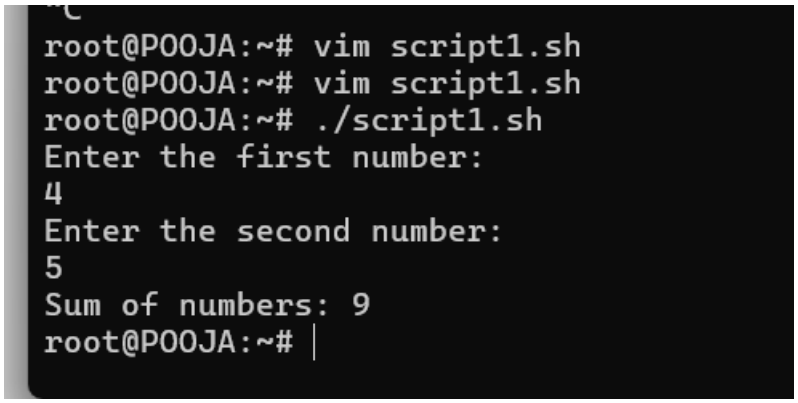
The script uses read num to take user input, stores it in the variable num, and prints the value with echo $num.





Question 4: Write a shell script that performs addition of two numbers (e.g., 5 and 3) and prints the result.

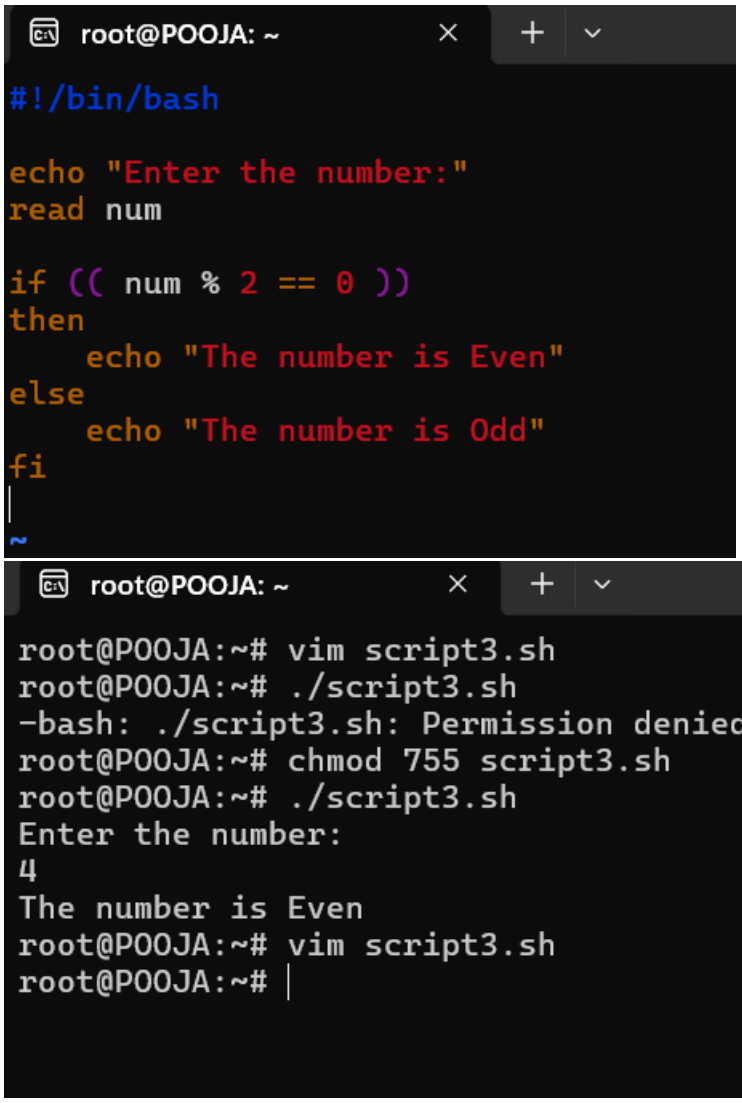




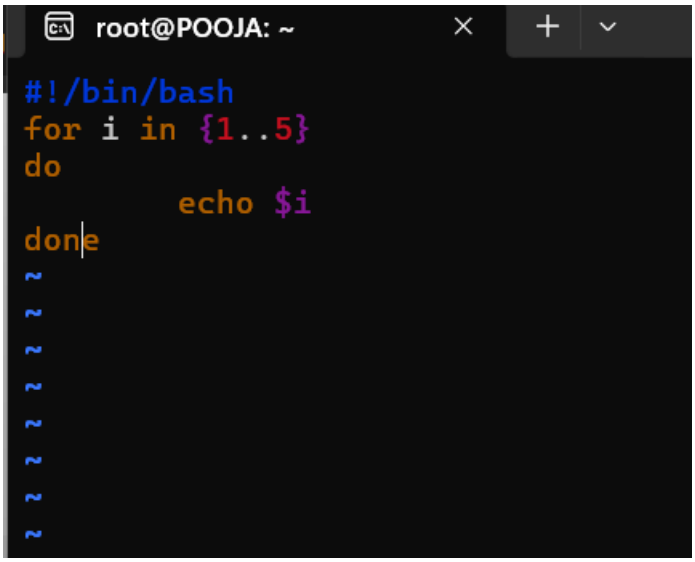
The script uses read num to take user input, stores it in the variable num, and prints the value with echo $num.

Question 5: Write a shell script that takes a number as input and prints "Even" if it is even, otherwise prints "Odd".

The script uses an if statement to check if num % 2 == 0 for evenness, and prints "Even" or "Odd" accordingly.



Question 6: Write a shell script that uses a for loop to print numbers from 1 to 5.


root@POOJA: ~
#!/bin/bash
for i in {1..5}
do
echo $i
done

```
root@POOJA:~# vim script4.sh
root@POOJA:~# chmod 755 script4.sh
root@POOJA:~# ./script4.sh
1
2
3
4
5
root@POOJA:~# vim script4.sh
root@POOJA:~#
```

Question 7: Write a shell script that uses a while loop to print numbers from 1 to 5.

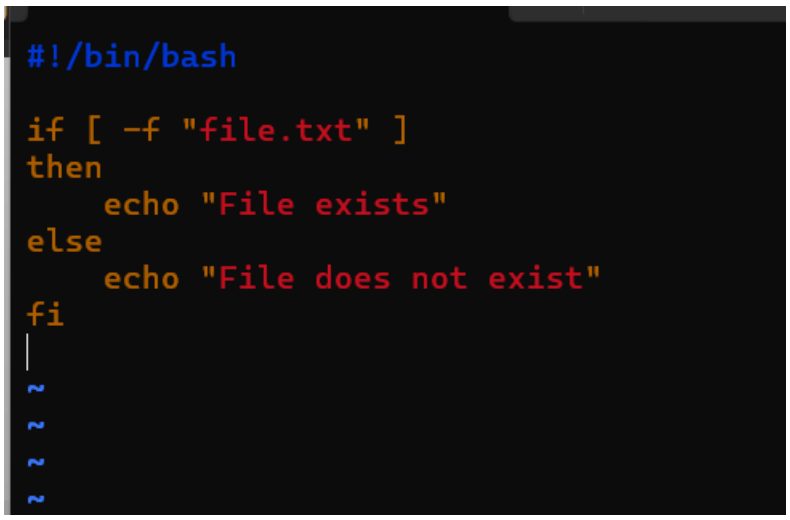
Question

```
#!/bin/bash

i=1

while [ $i -le 5 ]
do
    echo $i
    i=$((i + 1))
done
~
~
~
```

```
root@POOJA:~# vim script5.sh
root@POOJA:~# ./script5.sh
1
2
3
4
5
root@POOJA:~#
```

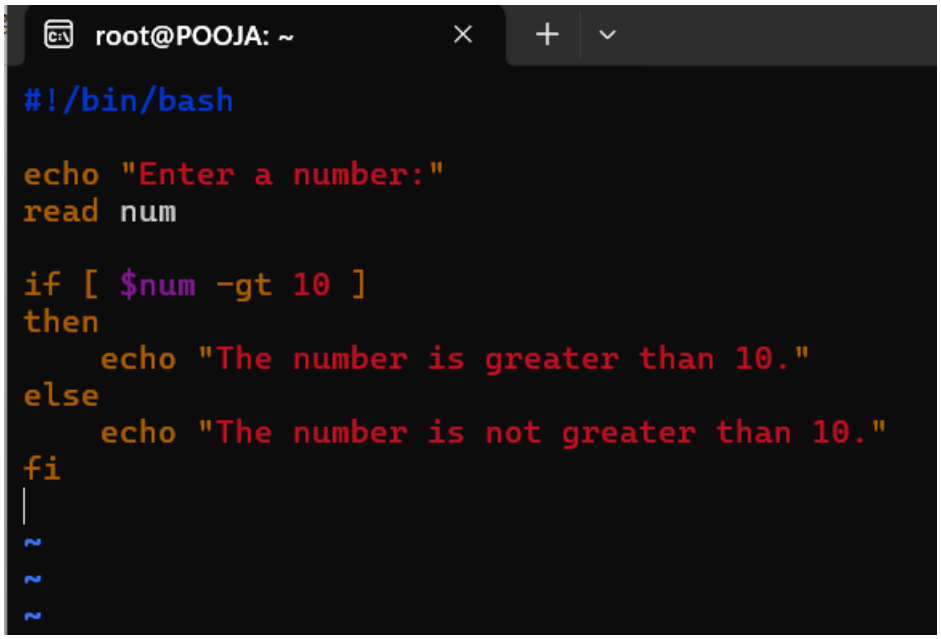
Question 8: Write a shell script that checks if a file named "file.txt" exists in the current directory. If it

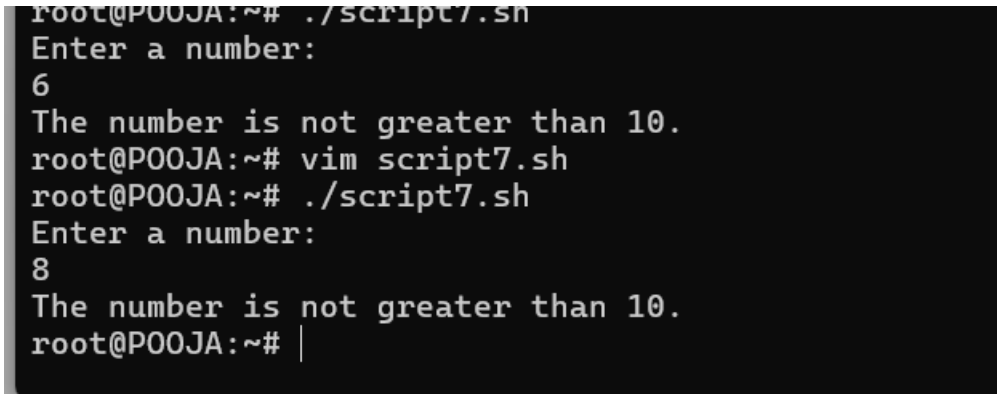
does, print "File exists", otherwise, print "File does not exist"




```
root@POOJA:~# vim script6.sh
root@POOJA:~# chmod 755 script6.sh
root@POOJA:~# ./script6.sh
File does not exist
root@POOJA:~# vim script6.sh
root@POOJA:~#
```

Question 9: Write a shell script that uses the if statement to check if a number is greater than 10 and prints a message accordingly.





Question 10: Write a shell script that uses nested for loops to print a multiplication table for numbers from 1 to 5. The output should be formatted nicely, with each row representing a number and each representing the multiplication result for that number

```
#!/bin/bash

echo "Multiplication Table:"

for i in {1..5}
do
    for j in {1..5}
    do
        result=$((i * j))
        printf "%-4d" $result
    done
    echo ""  # Move to the next line after each row
done
```

```
The number is not greater than 10.
root@POOJA:~# vim script9.sh
root@POOJA:~# chmod 755 script9.sh
root@POOJA:~# ./script9.sh
Multiplication Table:
1   2   3   4   5
2   4   6   8   10
3   6   9   12  15
4   8   12  16  20
5   10  15  20  25
root@POOJA:~# vim script9.sh
root@POOJA:~#
```