Assignment -2

Part B

Identify True or False:

1. ls is used to list files and directories in a directory. - True

2. mv is used to move files and directories. - True

3. cd is used to copy files and directories. – False (cp is used for copy; cd is used to change directory)

4. pwd stands for "print working directory" and displays the current directory. - True

5. grep is used to search for patterns in files. - True

6. chmod 755 file.txt gives read, write, and execute permissions to the owner, and read and execute permissions to group and others. - True

7. mkdir -p directory1/directory2 creates nested directories, creating directory2 inside directory1 if directory1 does not exist. - True

8. rm -rf file.txt deletes a file forcefully without confirmation. – True

Identify the Incorrect Commands:

1. chmodx is used to change file permissions. - chmod

2. cpy is used to copy files and directories. - cp

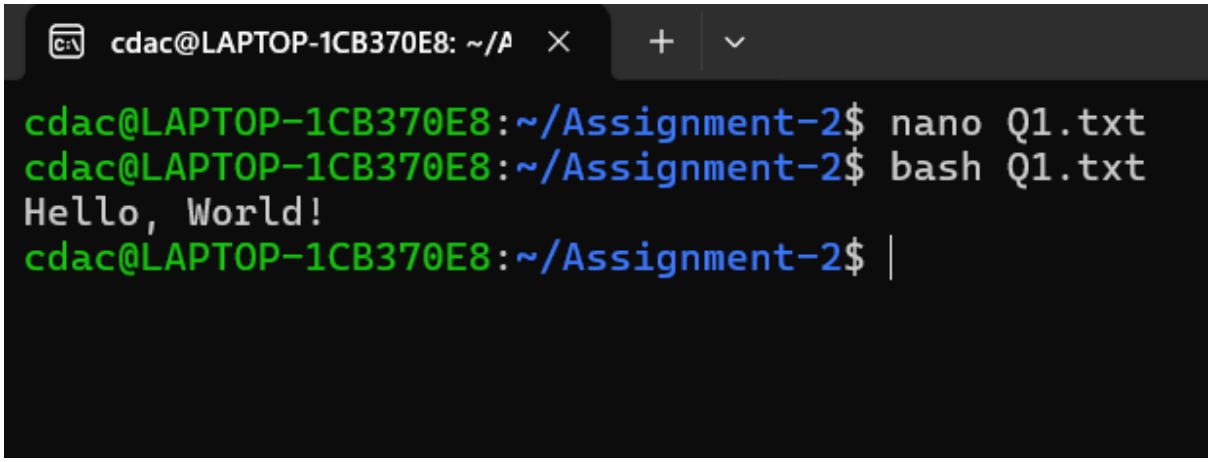
3. mkfile is used to create a new file. – touch/nano

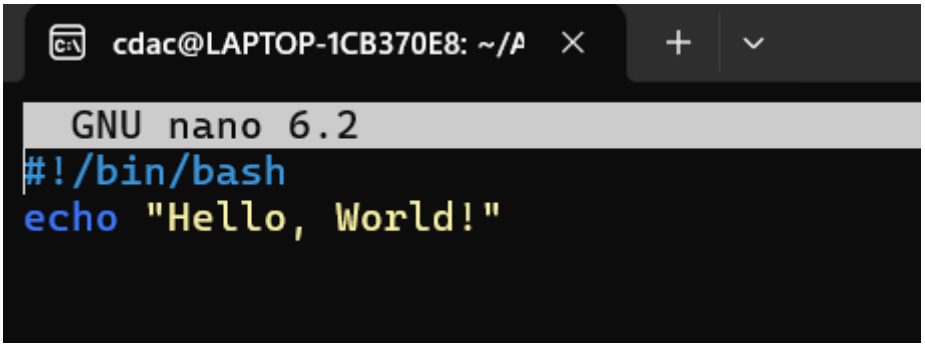
4. catx is used to concatenate files. -cat

5. rn is used to rename files. - re

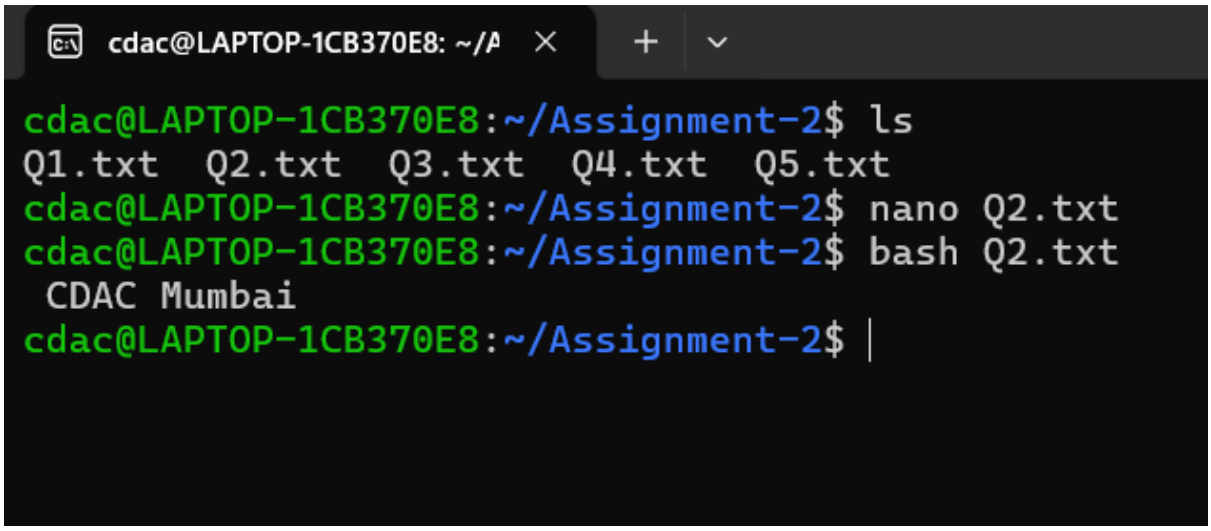
Part C

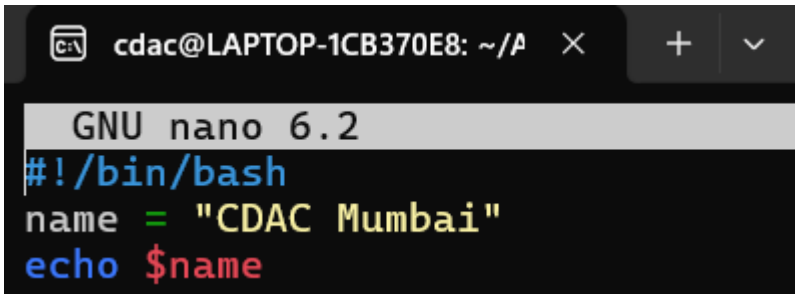
Question 1: Write a shell script that prints "Hello, World!" to the terminal.



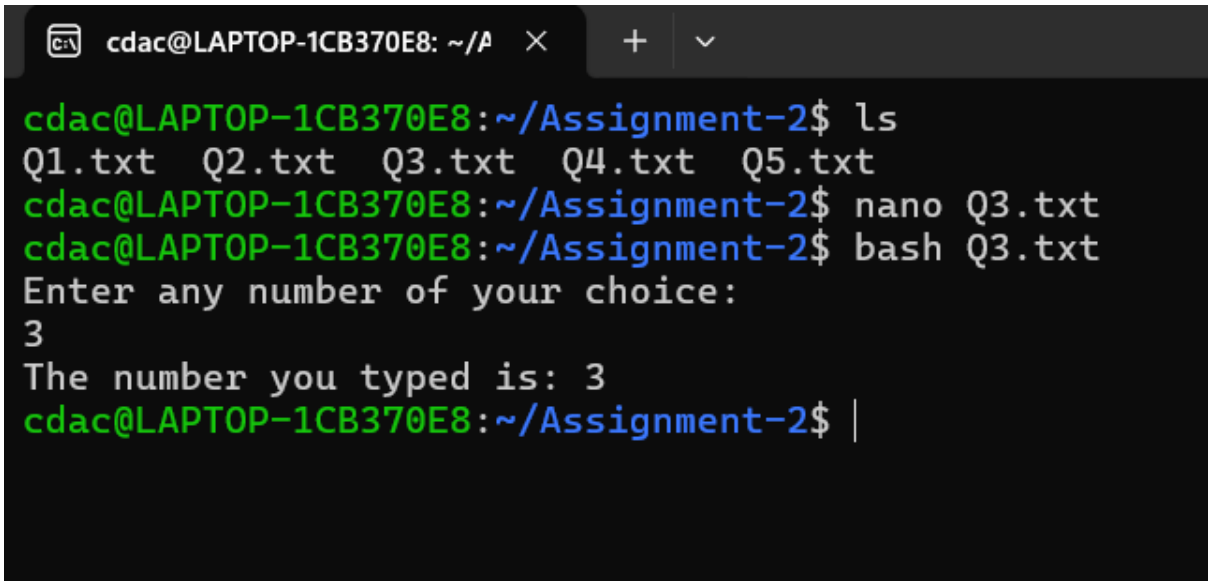


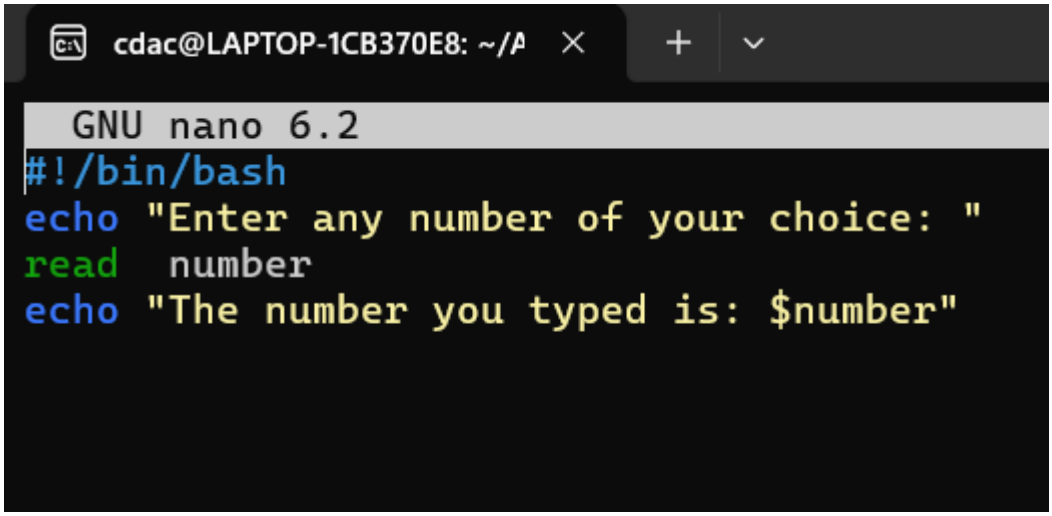
Question 2: Declare a variable named "name" and assign the value "CDAC Mumbai" to it. Print the value of the variable.



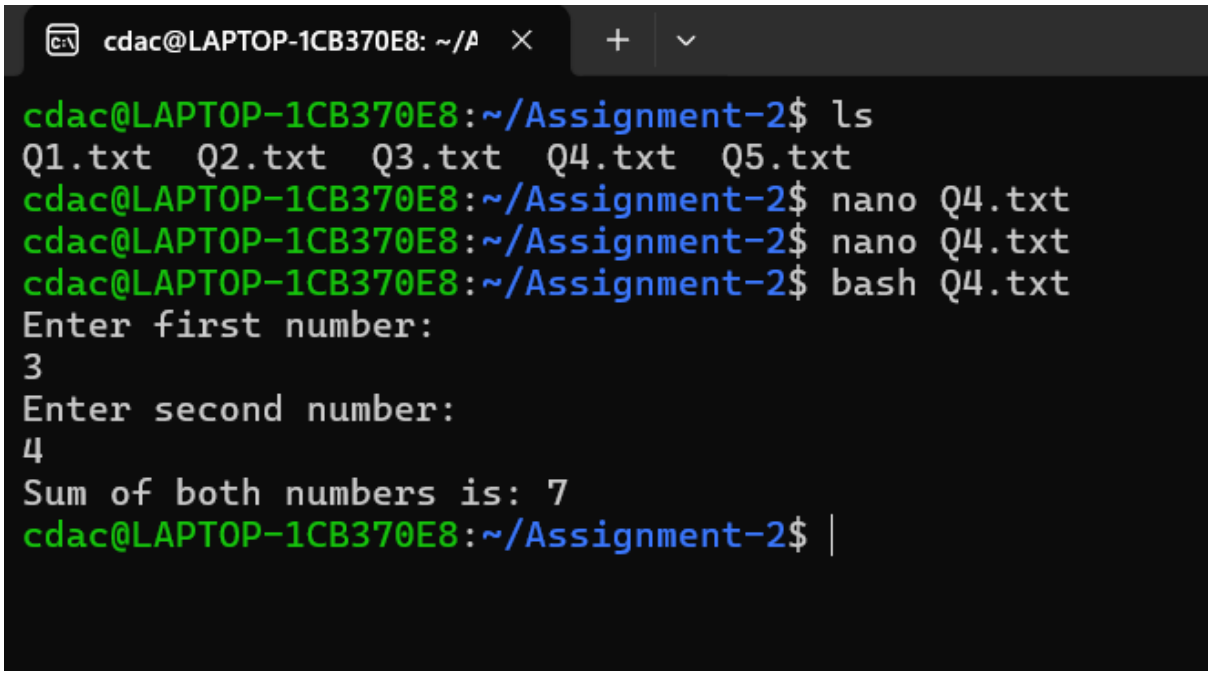


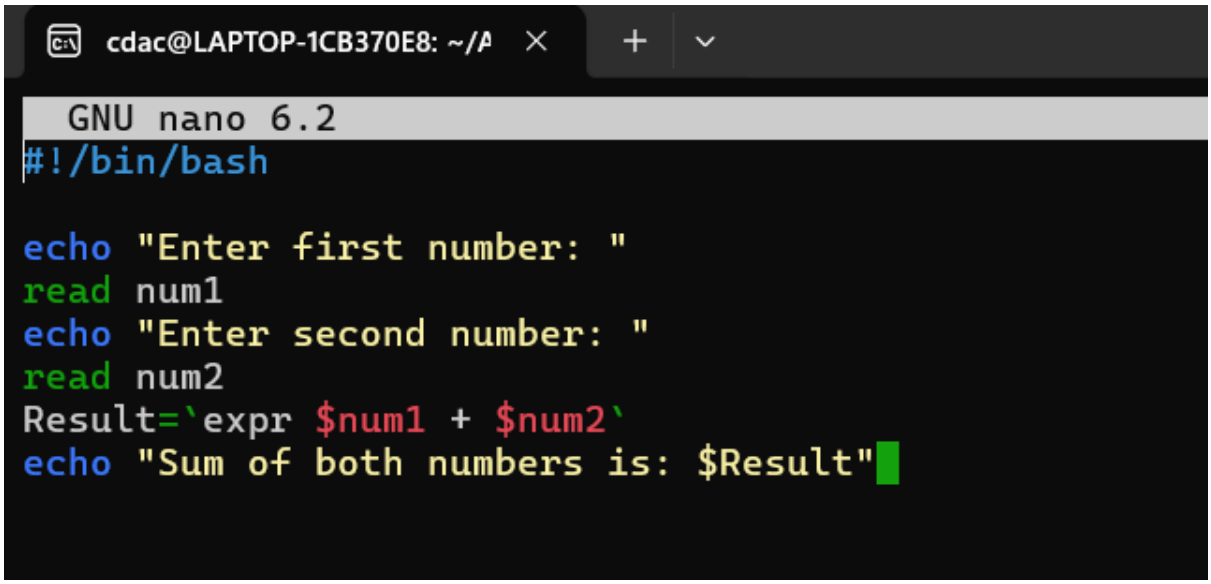
Question 3: Write a shell script that takes a number as input from the user and prints it.



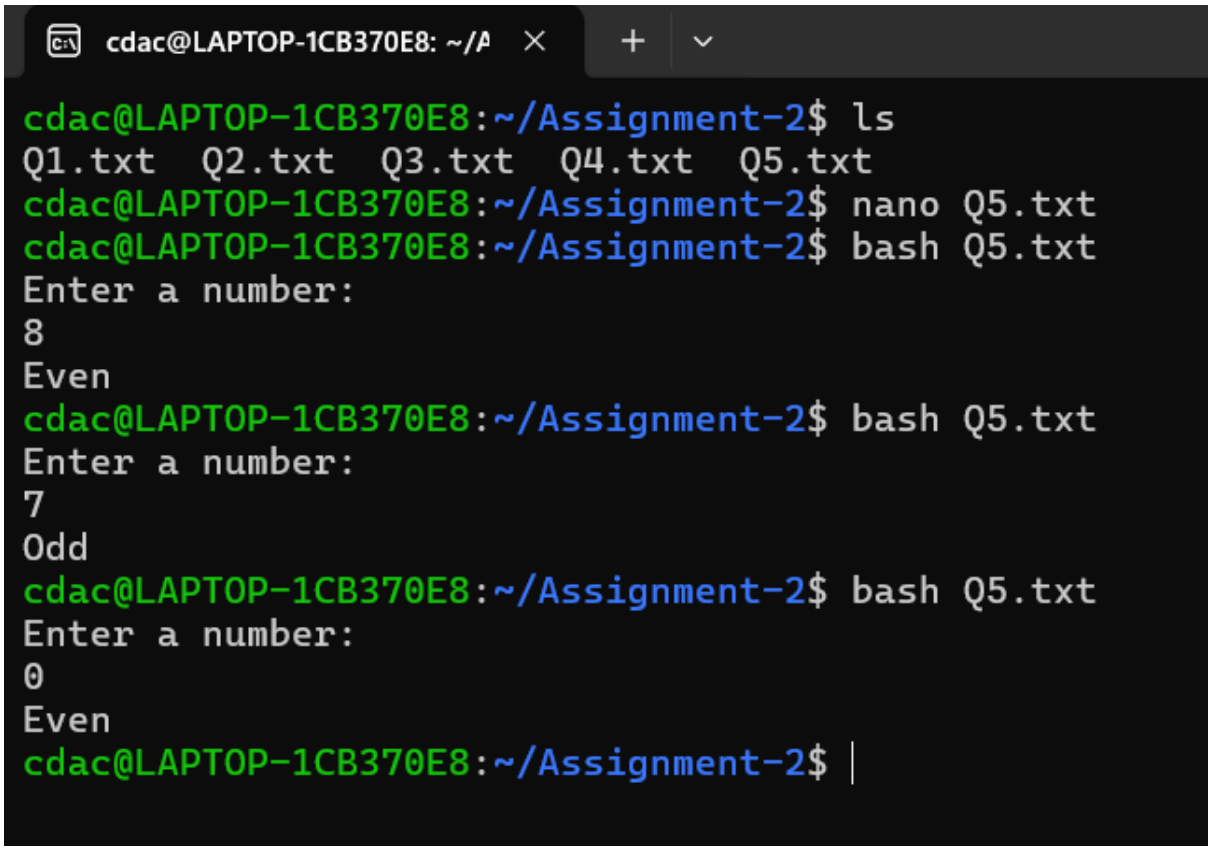


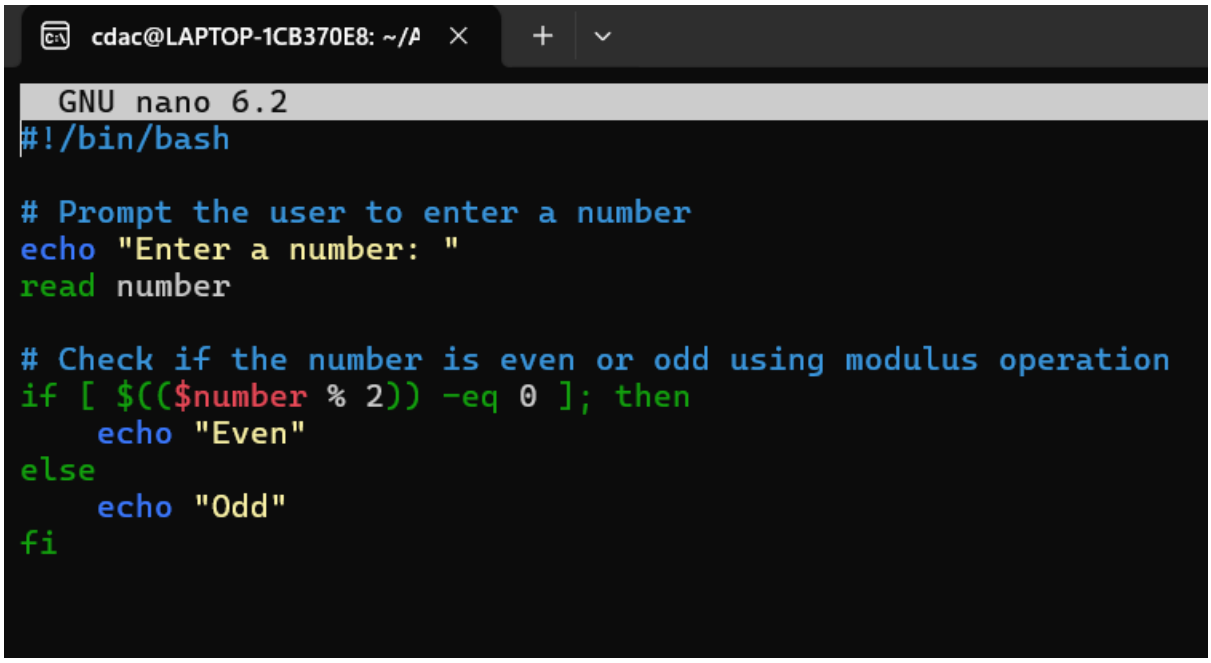
Question 4: Write a shell script that performs addition of two numbers (e.g., 5 and 3) and prints the result.



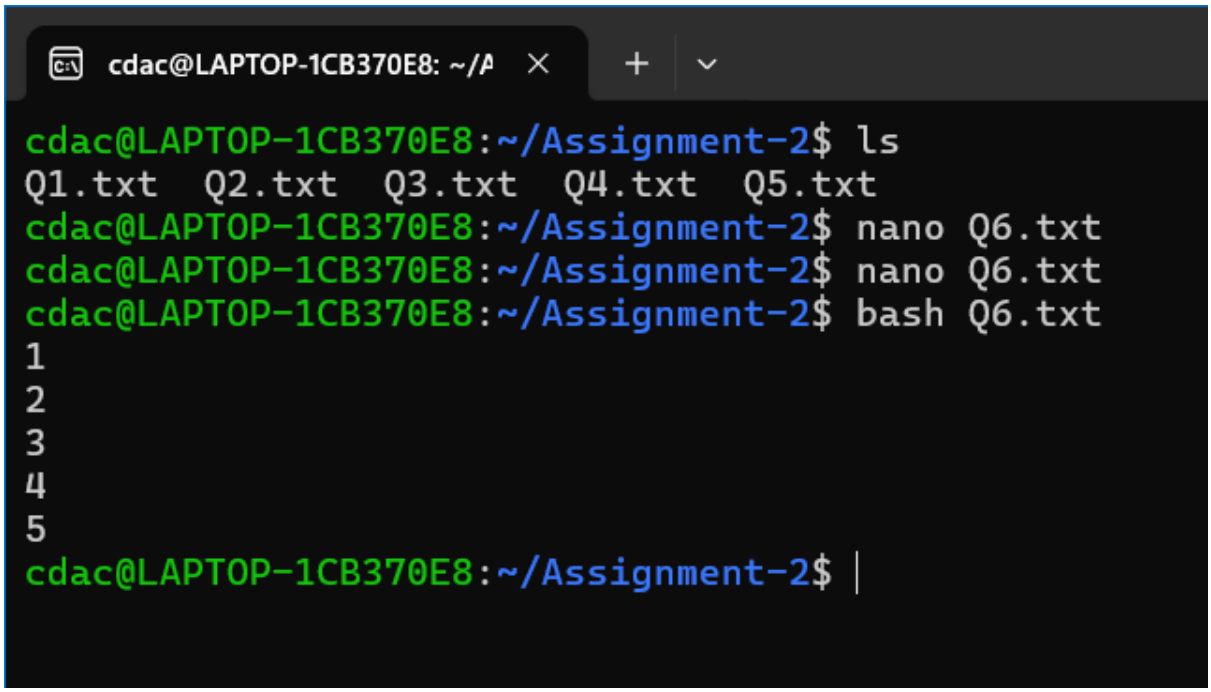


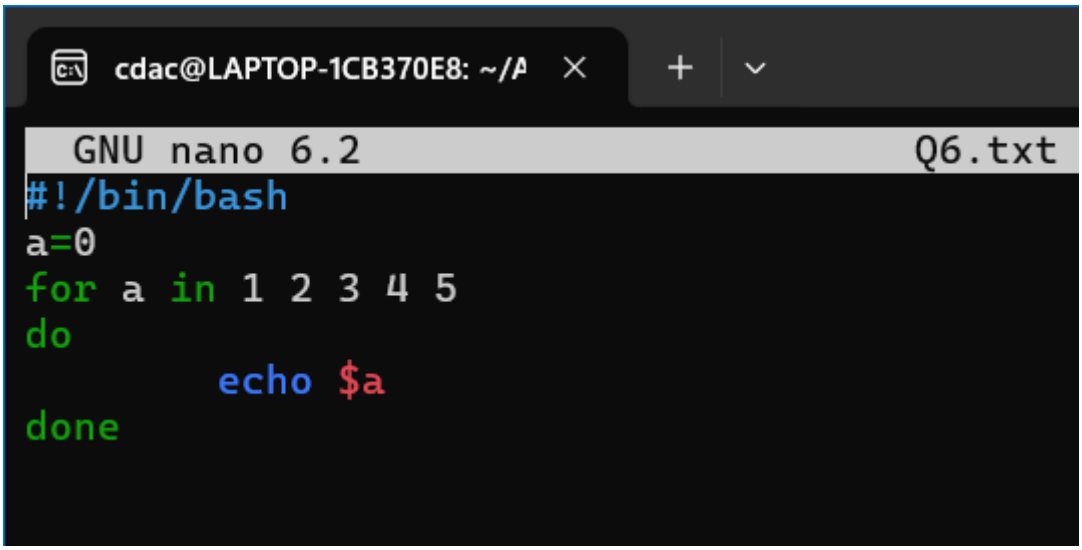
Question 5: Write a shell script that takes a number as input and prints "Even" if it is even, otherwise prints "Odd".



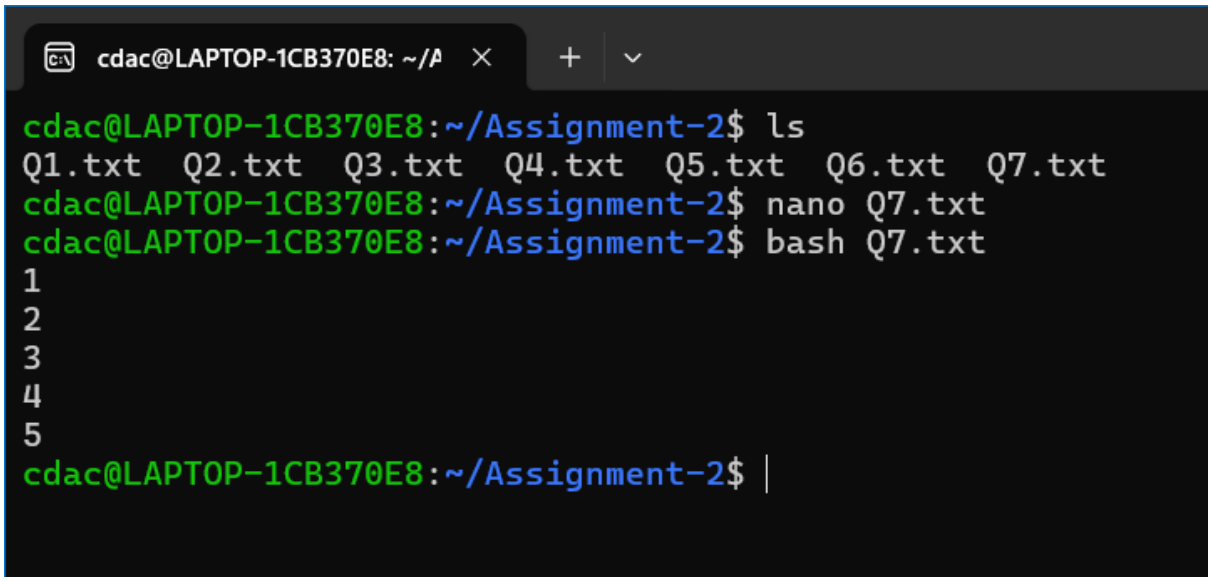


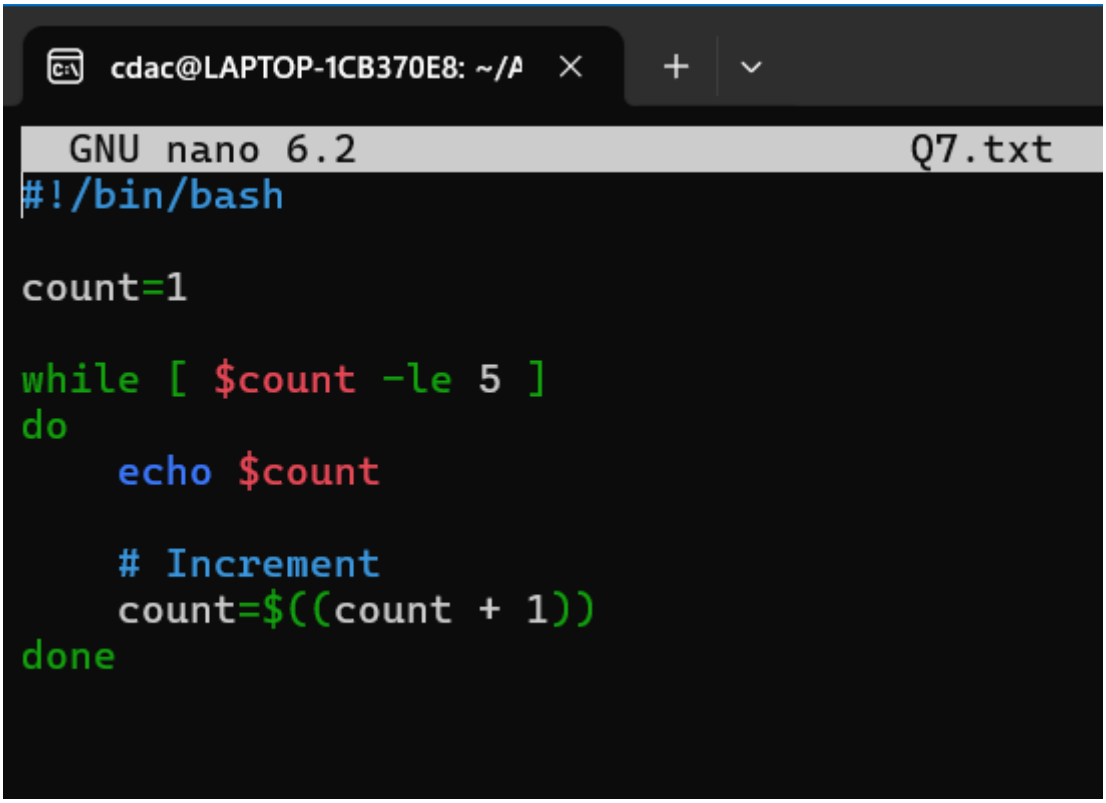
Question 6: Write a shell script that uses a for loop to print numbers from 1 to 5.



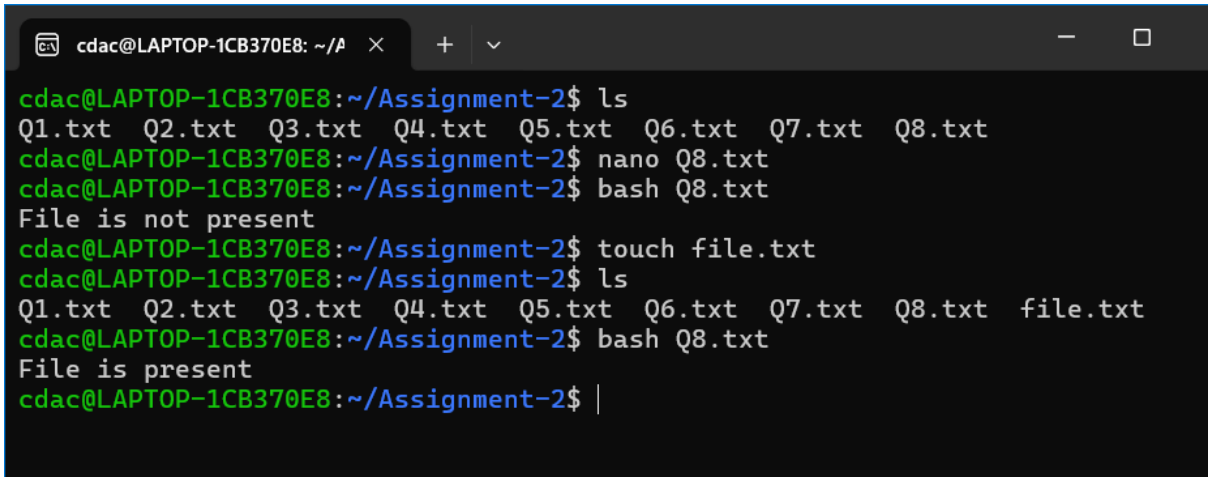


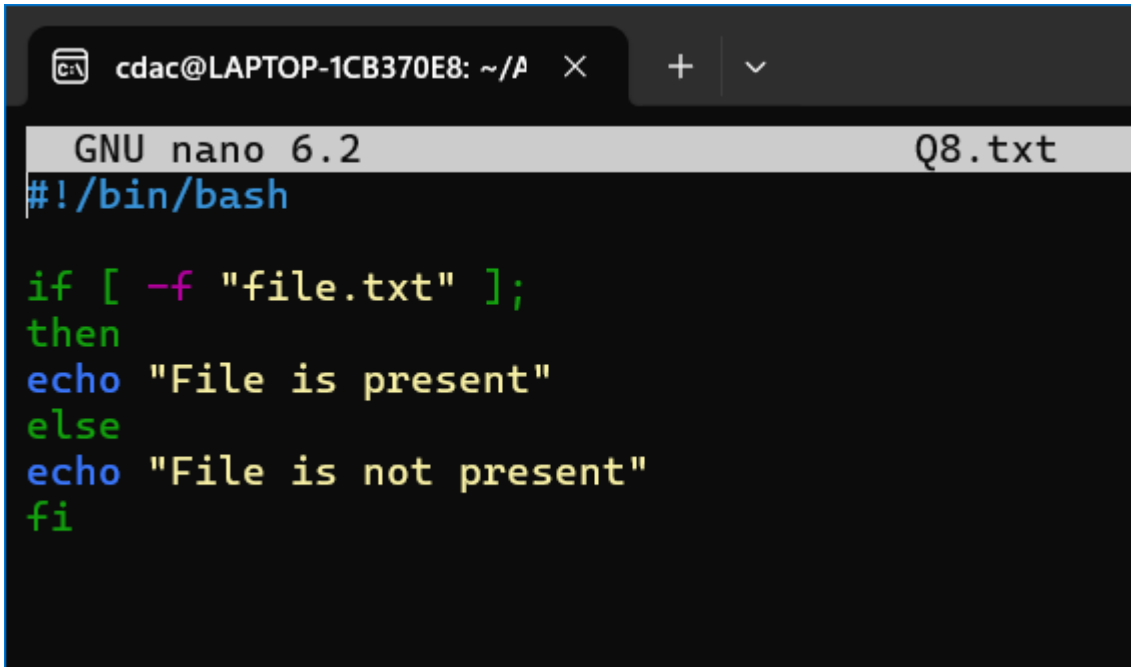
Question 7: Write a shell script that uses a while loop to print numbers from 1 to 5.



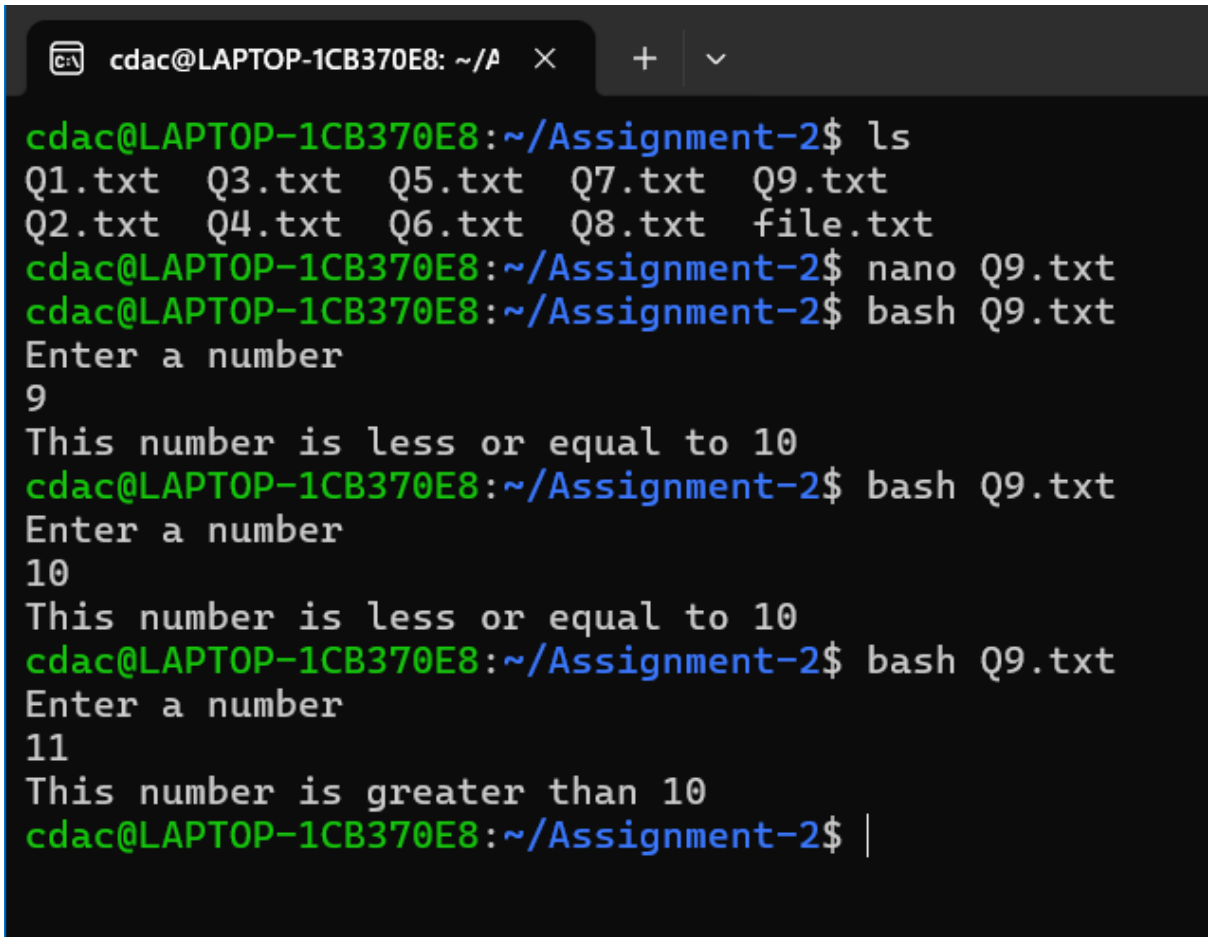


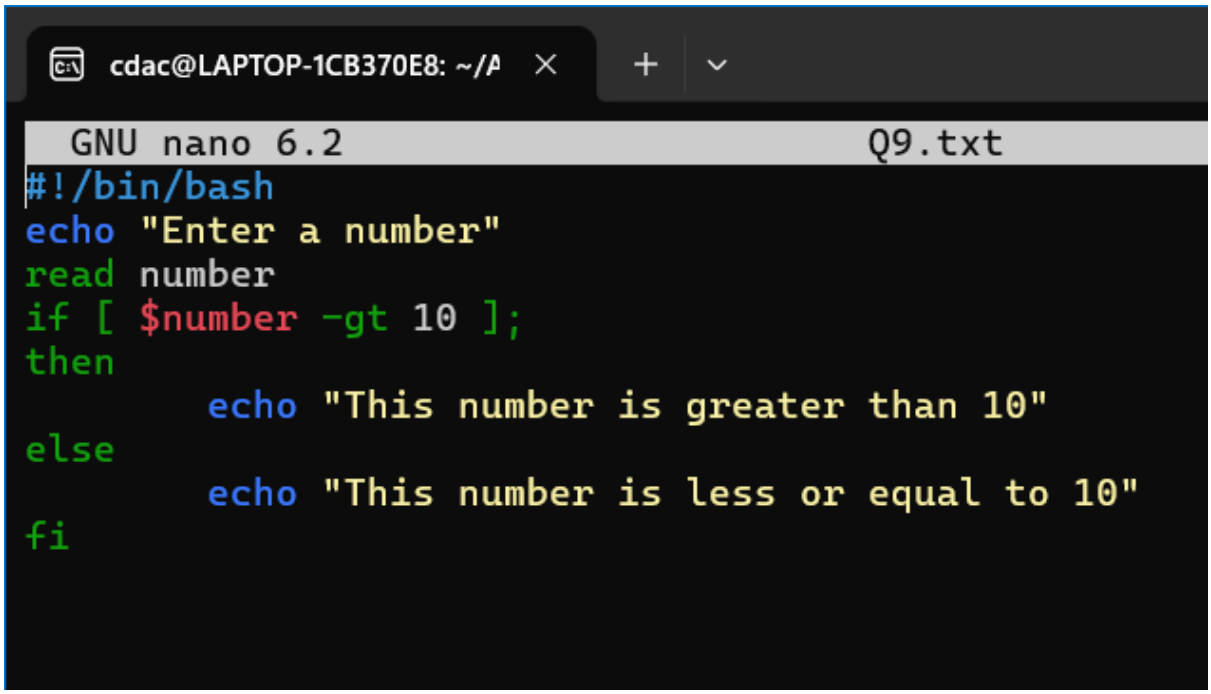
Question 8: Write a shell script that checks if a file named "file.txt" exists in the current directory. If it does, print "File exists", otherwise, print "File does not exist".



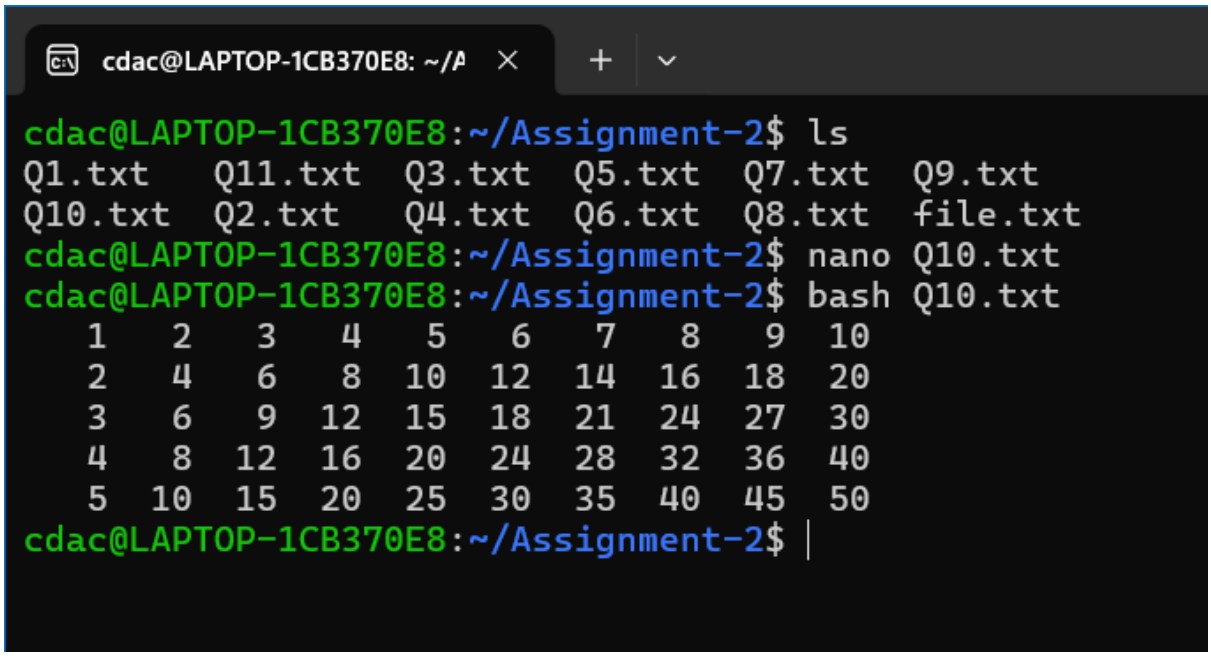


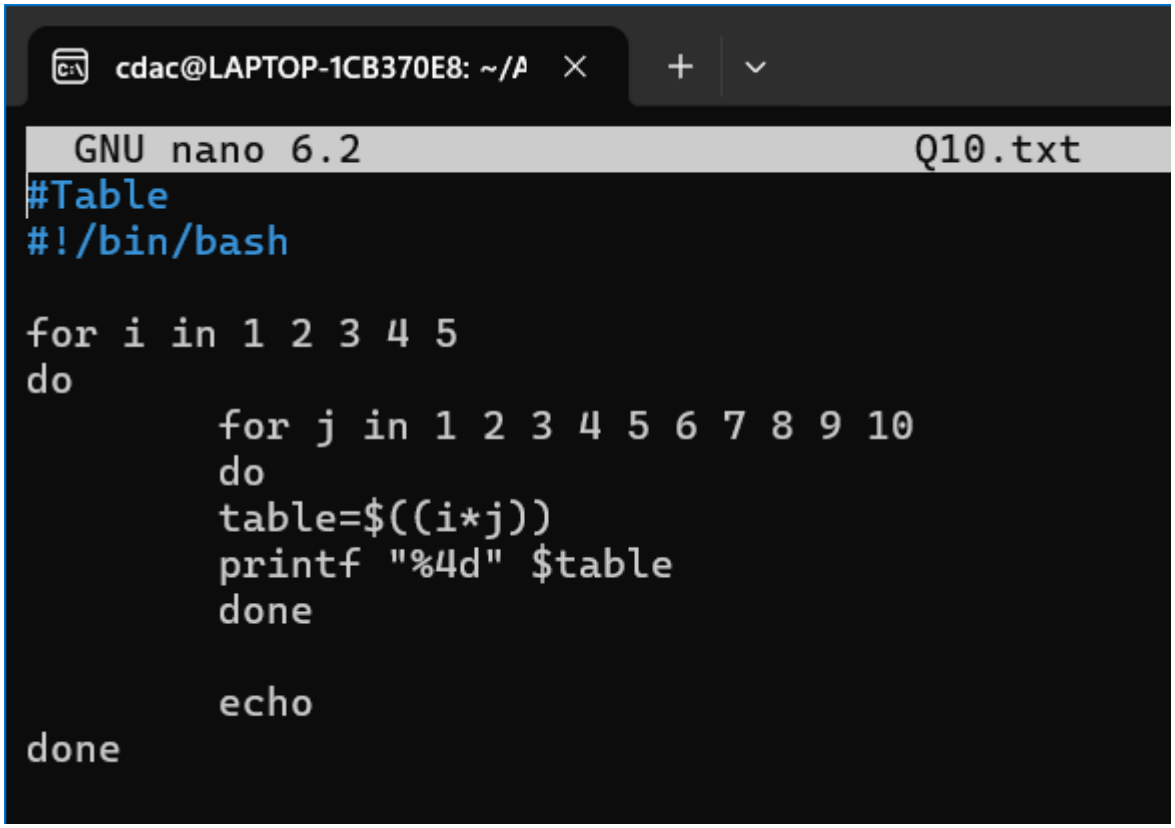
Question 9: Write a shell script that uses the if statement to check if a number is greater than 10 and prints a message accordingly.



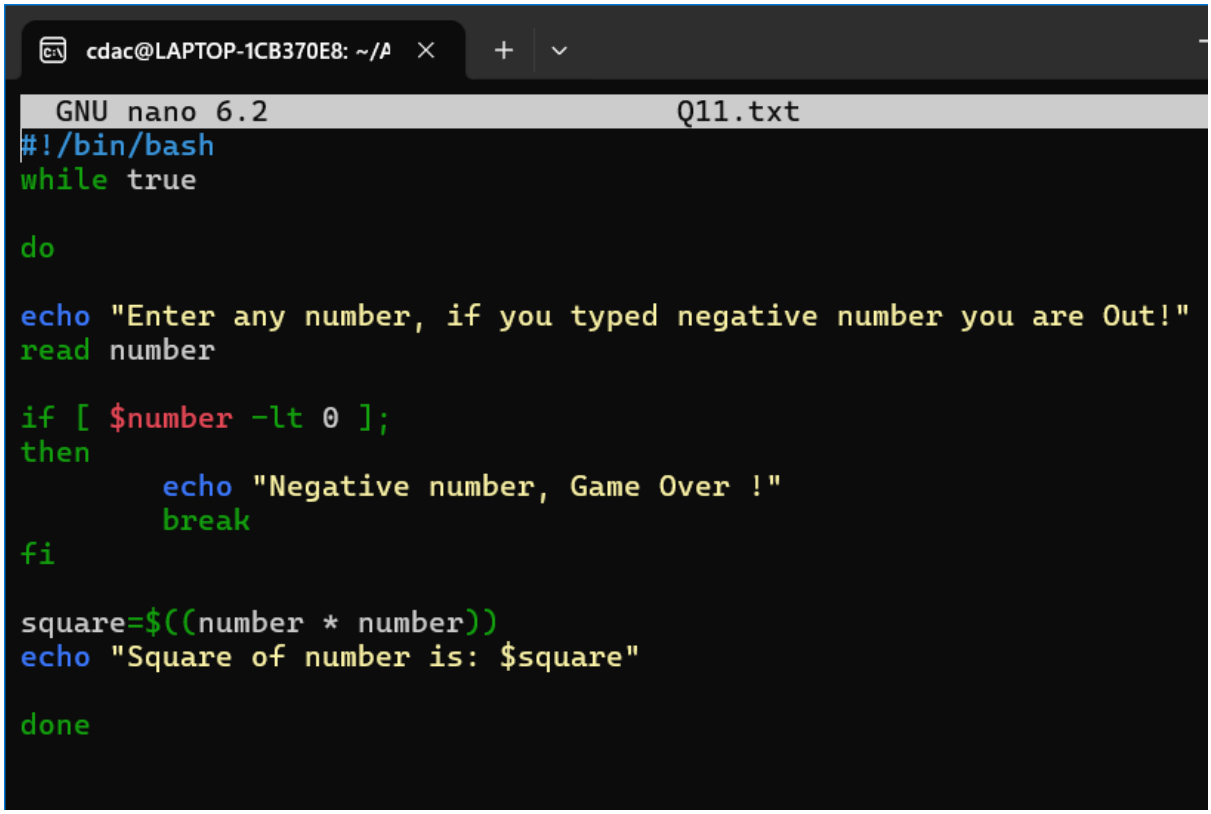


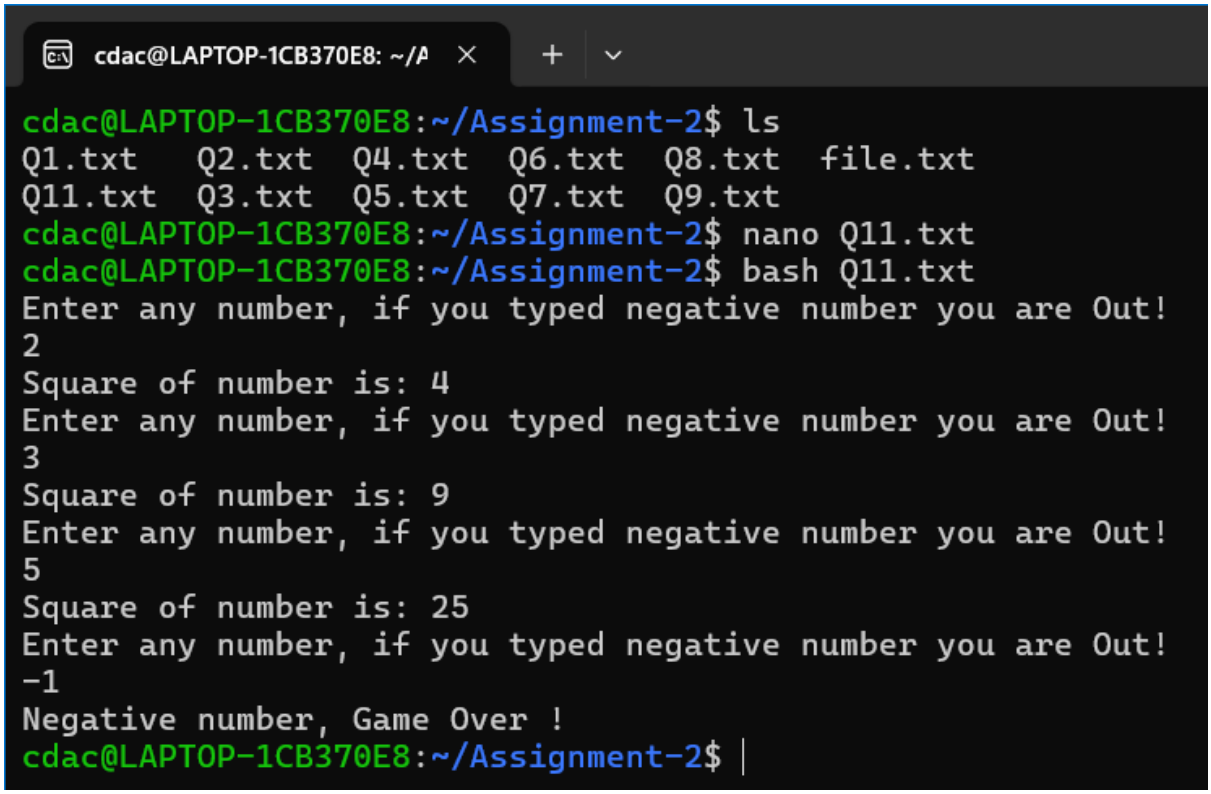
Question 10: Write a shell script that uses nested for loops to print a multiplication table for numbers from 1 to 5. The output should be formatted nicely, with each row representing a number and each column representing the multiplication result for that number.





Question 11: Write a shell script that uses a while loop to read numbers from the user until the user enters a negative number. For each positive number entered, print its square. Use the break statement to exit the loop when a negative number is entered.




cdac@LAPTOP-1CB370E8: ~/A
cdac@LAPTOP-1CB370E8:~/Assignment-2$ ls
Q1.txt Q2.txt Q4.txt Q6.txt Q8.txt file.txt
Q11.txt Q3.txt Q5.txt Q7.txt Q9.txt
cdac@LAPTOP-1CB370E8:~/Assignment-2$ nano Q11.txt
cdac@LAPTOP-1CB370E8:~/Assignment-2$ bash Q11.txt
Enter any number, if you typed negative number you are Out!
2
Square of number is: 4
Enter any number, if you typed negative number you are Out!
3
Square of number is: 9
Enter any number, if you typed negative number you are Out!
5
Square of number is: 25
Enter any number, if you typed negative number you are Out!
-1
Negative number, Game Over !
cdac@LAPTOP-1CB370E8:~/Assignment-2$