

DEVOPS BATCH

Task **Shell Scripting**

13-Tasks

PROVIDED BY RAYMA
MAM



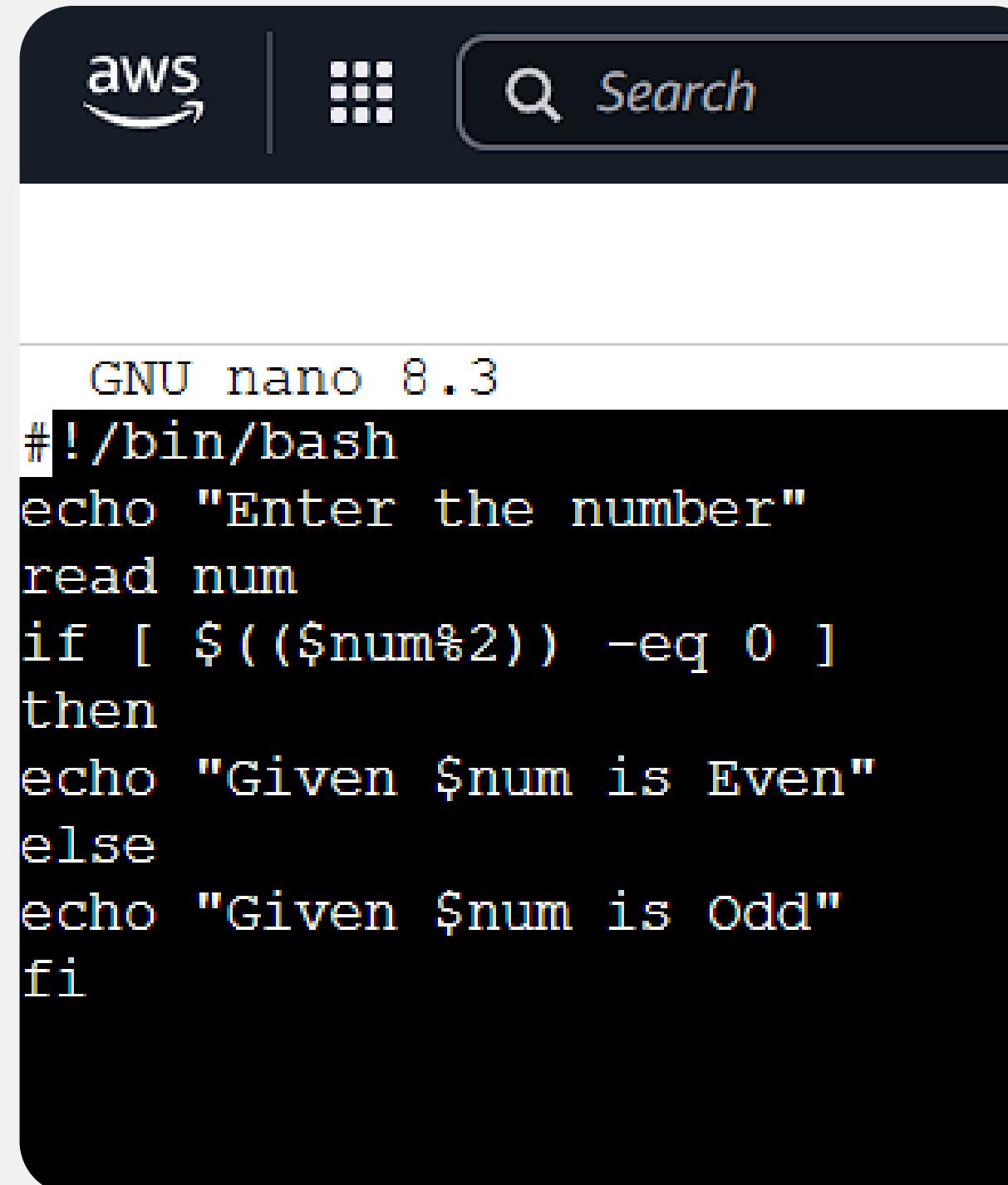
Working on these tasks boosted my confidence and gave me hands-on experience with real-time scenarios.

1ST - TASK

To Display Even or Odd

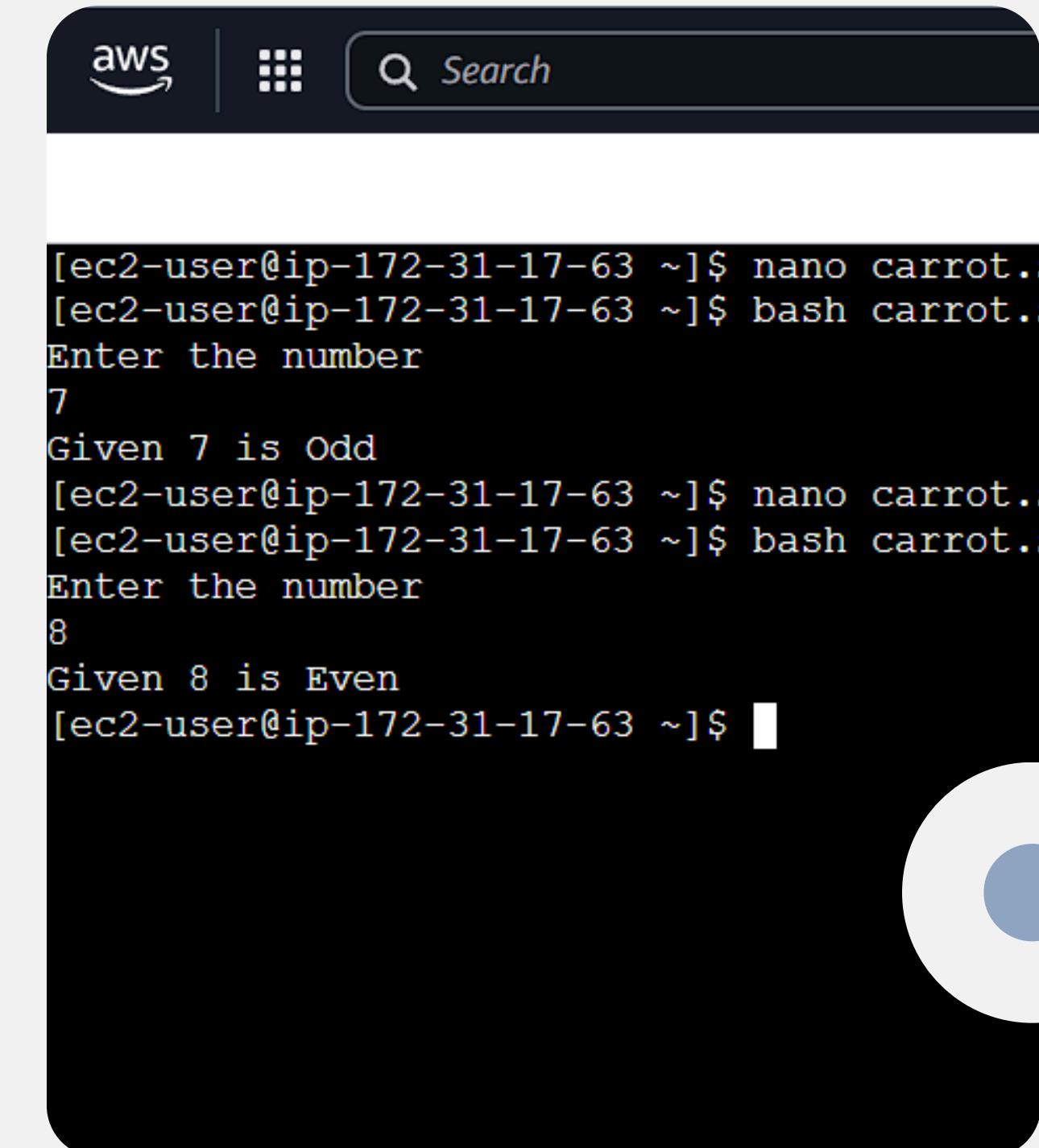
Even or Odd

GETING INPUT NUMBER
BY THE USER



The screenshot shows a terminal window with the AWS logo and search bar at the top. The terminal content is a bash script named 'carrot'. It prompts the user to enter a number, reads it, and then checks if it is even or odd using the modulo operator (%). If the remainder of the division by 2 is 0, it prints 'Even'; otherwise, it prints 'Odd'.

```
GNU nano 8.3
#!/bin/bash
echo "Enter the number"
read num
if [ $((num%2)) -eq 0 ]
then
echo "Given $num is Even"
else
echo "Given $num is Odd"
fi
```



The screenshot shows the execution of the 'carrot' script. It first nano-edits the file, then runs it with the command 'bash carrot.'. It prompts for a number, receives '7' as input, and outputs that 'Given 7 is Odd'. It then nano-edits the file again and runs it again with 'bash carrot.' to receive '8' as input and output that 'Given 8 is Even'.

```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.
Enter the number
7
Given 7 is Odd
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.
Enter the number
8
Given 8 is Even
[ec2-user@ip-172-31-17-63 ~]$
```

2ND - TASK

To Display
**Sum of natural
number from 1-20**

```
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter the number
7
Given 7 is Odd
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter the number
8
Given 8 is Even
```

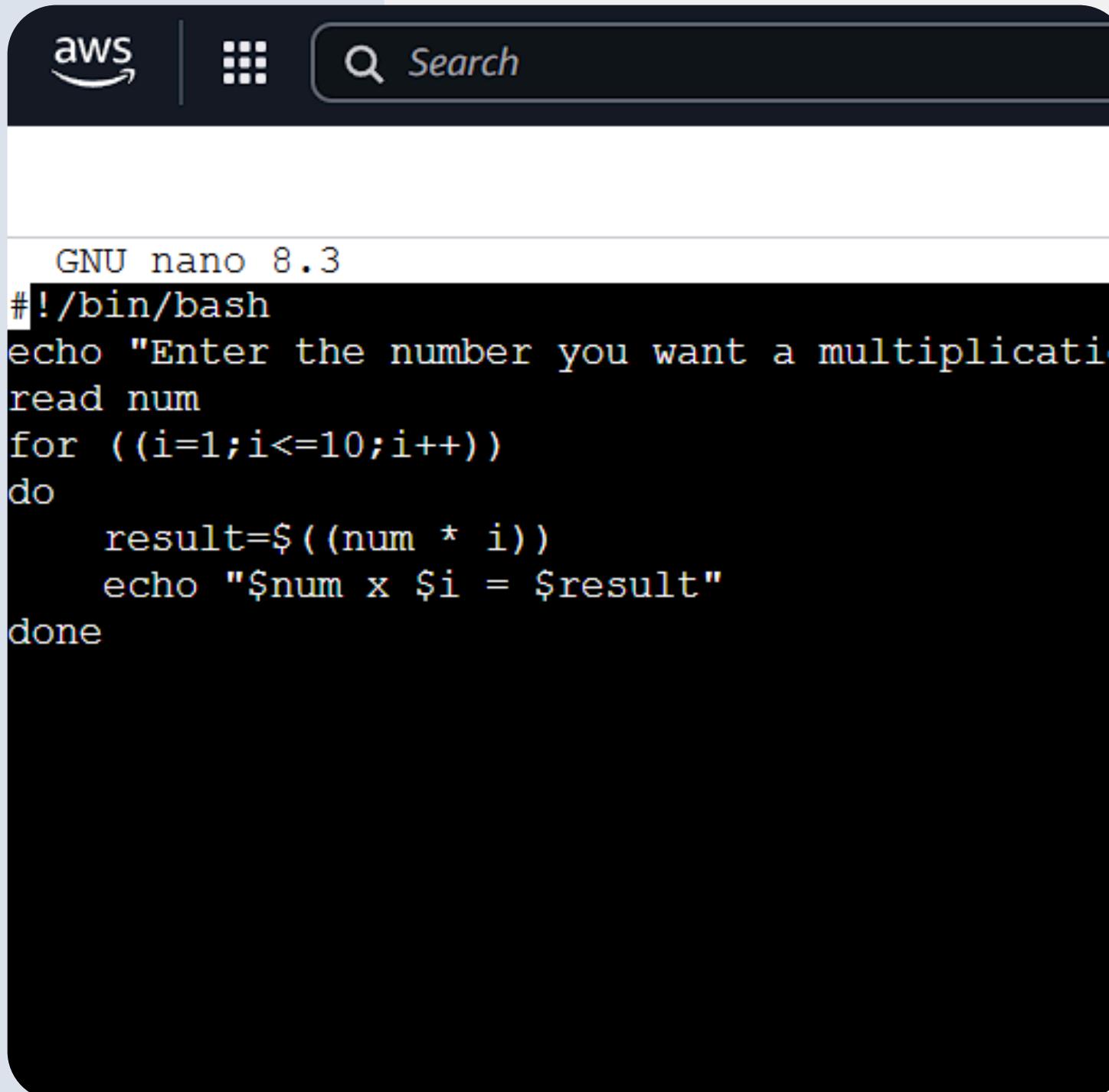


```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
The sum of natural numbers from 1 to 20 is: 210
[ec2-user@ip-172-31-17-63 ~]$ █
```

1 to 20 num

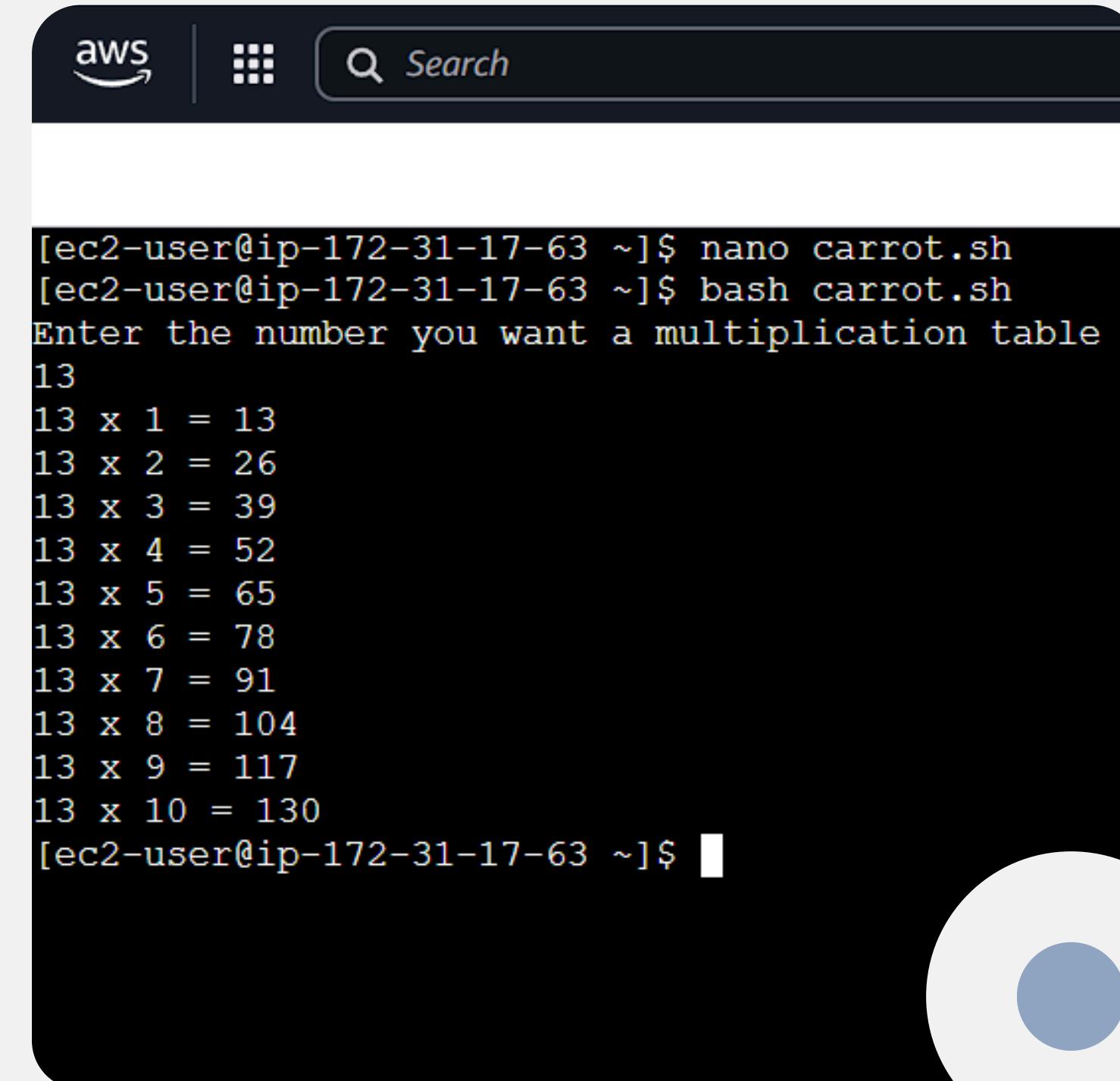
To Display
multiplication Table

3RD - TASK



aws | Search

```
GNU nano 8.3
#!/bin/bash
echo "Enter the number you want a multiplication table for"
read num
for ((i=1;i<=10;i++))
do
    result=$((num * i))
    echo "$num x $i = $result"
done
```



aws | Search

```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter the number you want a multiplication table for
13
13 x 1 = 13
13 x 2 = 26
13 x 3 = 39
13 x 4 = 52
13 x 5 = 65
13 x 6 = 78
13 x 7 = 91
13 x 8 = 104
13 x 9 = 117
13 x 10 = 130
[ec2-user@ip-172-31-17-63 ~]$ █
```

To Display **Positive or Negative**

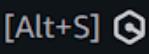
user input

POSITIVE OR NEGATIVE

4TH - TASK

aws |   Search

```
GNU nano 8.3
#!/bin/bash
echo "Enter the number"
read num
if [ $num -lt 0 ]
then
echo "$num is negative"
elif [ $num -eq 0 ]
then
echo "$num is whole number"
else
echo "$num is Positive"
fi
```

```
aws | Search [Alt+S]   
  
  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
  
Last login: Tue Dec 30 12:43:42 2025 from 13.48.4.202  
[ec2-user@ip-172-31-43-182 ~]$ nano num.sh  
[ec2-user@ip-172-31-43-182 ~]$ bash num.sh  
Enter the number  
-3  
-3 is negative  
[ec2-user@ip-172-31-43-182 ~]$ bash num.sh  
Enter the number  
0  
0 is whole number  
[ec2-user@ip-172-31-43-182 ~]$ bash num.sh  
Enter the number  
7  
7 is Positive  
[ec2-user@ip-172-31-43-182 ~]$ nano num.sh  
[ec2-user@ip-172-31-43-182 ~]$ 
```

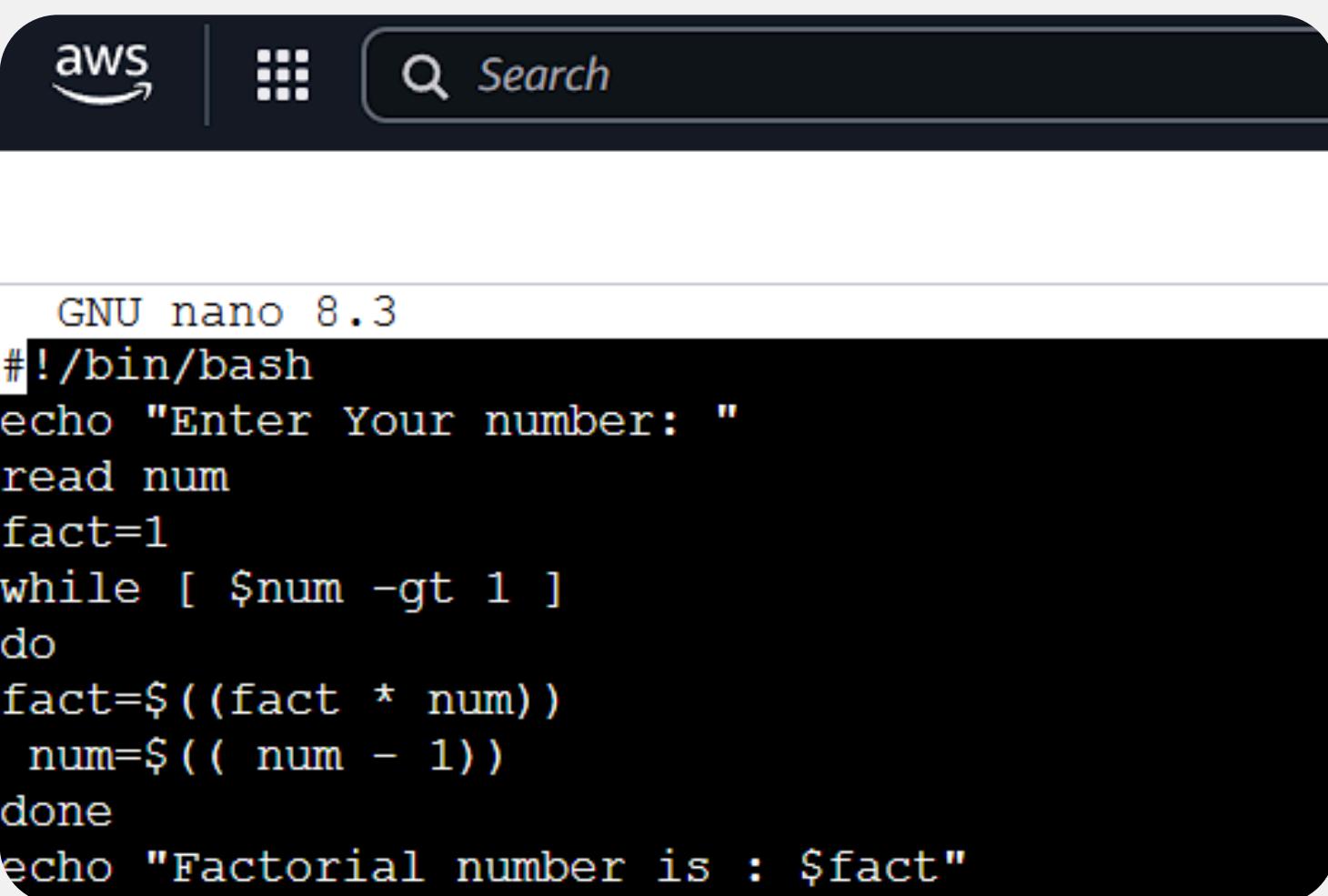
i-0b8d7c1f51f95c033 (carrot)

6TH - TASK

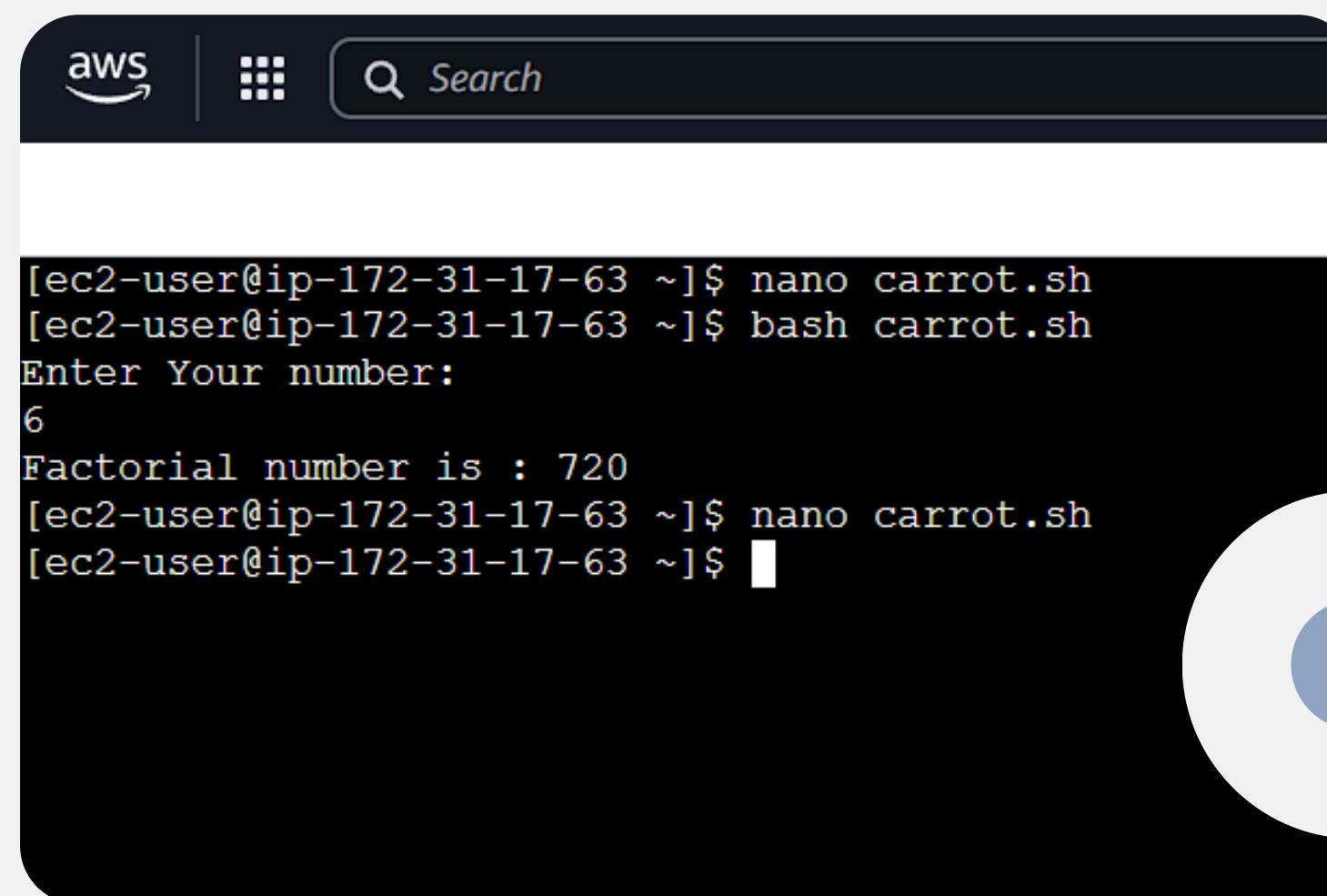
Factorial number

TO DISPLAY
FACTORIAL
NUMBER

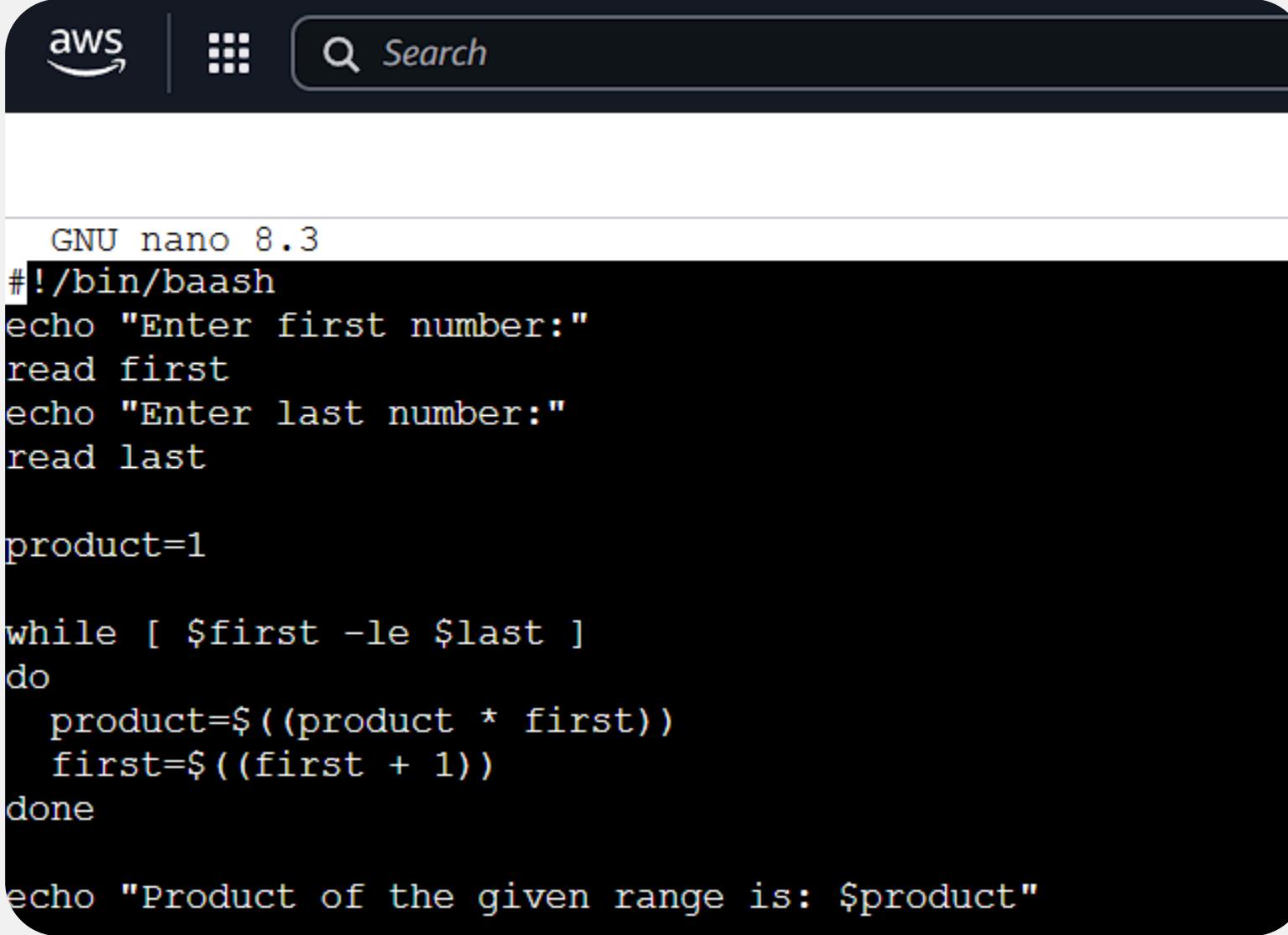
To Display Calculate Factorial number



```
GNU nano 8.3
#!/bin/bash
echo "Enter Your number: "
read num
fact=1
while [ $num -gt 1 ]
do
fact=$((fact * num))
num=$(( num - 1))
done
echo "Factorial number is : $fact"
```



```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter Your number:
6
Factorial number is : 720
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ █
```

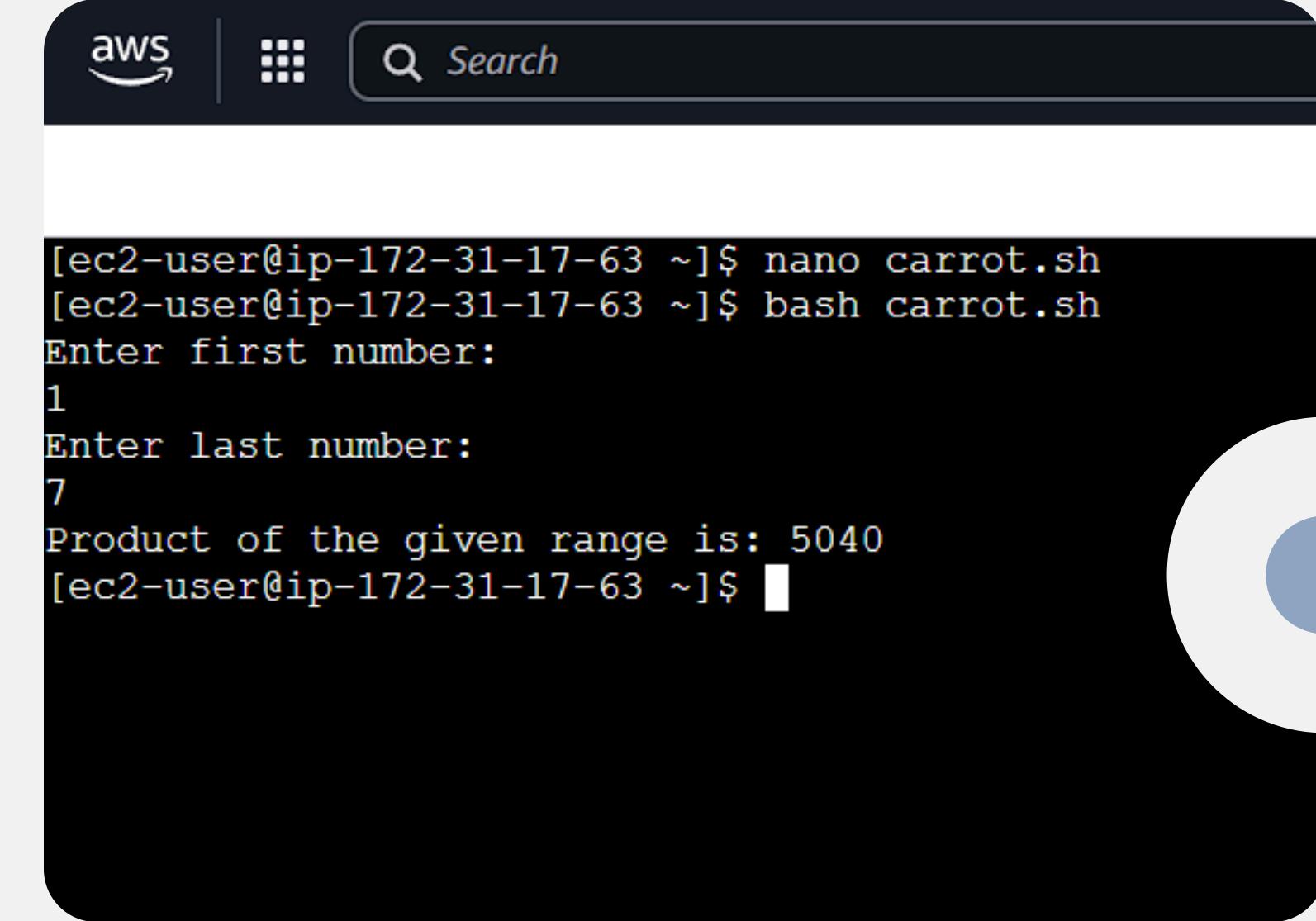


```
GNU nano 8.3
#!/bin/baash
echo "Enter first number:"
read first
echo "Enter last number:"
read last

product=1

while [ $first -le $last ]
do
    product=$((product * first))
    first=$((first + 1))
done

echo "Product of the given range is: $product"
```



```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter first number:
1
Enter last number:
7
Product of the given range is: 5040
[ec2-user@ip-172-31-17-63 ~]$
```

To Display - **count of digits number**

7TH - TASK

8TH - TASK

```
aws | Search
GNU nano 8.3
#!/bin/baash
echo "Enter the number of sum digit"
read num
sum=0
num1=$num
while [ $num -gt 0 ]
do
digit=$((num % 10))
sum=$((sum + digit))
num=$((num / 10 ))
done
echo "the sum of the $num1 is $sum"
```

To Display
**print product of
number**

product

```
aws | Search
Amazon Linux 2023
https://aws.amazon.com/linux/
Last login: Wed Dec 31 13:10:08 2025 from 13.48.4.2
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter the number of sum digit
364
the sum of the 364 is 13
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$
```



10TH - TASK

```
aws | Search [Alt+S] A  
GNU nano 8.3  
#!/bin/bash  
  
echo "Enter first number:"  
read a  
  
echo "Enter second number:"  
read b  
  
echo "Choose operation:"  
echo "1. Addition"  
echo "2. Subtraction"  
echo "3. Multiplication"  
echo "4. Division"  
  
read choice  
  
case $choice in  
    1) result=$((a + b))  
        echo "Addition: $result" ;;  
    2) result=$((a - b))  
        echo "Subtraction: $result" ;;  
    3) result=$((a * b))  
        echo "Multiplication: $result" ;;  
    4) result=$((a / b))  
        echo "Division: $result" ;;  
  
    *) echo "Invalid choice" ;;  
esac
```

Arithmetic operation Between 2- num

```
aws | Search [Alt+S] A  
  
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh  
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh  
Enter first number:  
12  
Enter second number:  
13  
Choose operation:  
1. Addition  
2. Subtraction  
3. Multiplication  
4. Division  
2  
Subtraction: -1  
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh  
[ec2-user@ip-172-31-17-63 ~]$ █
```



To Display Even or Odd

The screenshot shows a terminal window with the AWS logo in the top left corner. The title bar has a search icon and the word "Search". The terminal content starts with "GNU nano 8.3" followed by a black redacted area containing a bash script. The script reads a number from the user and prints whether it is even or odd.

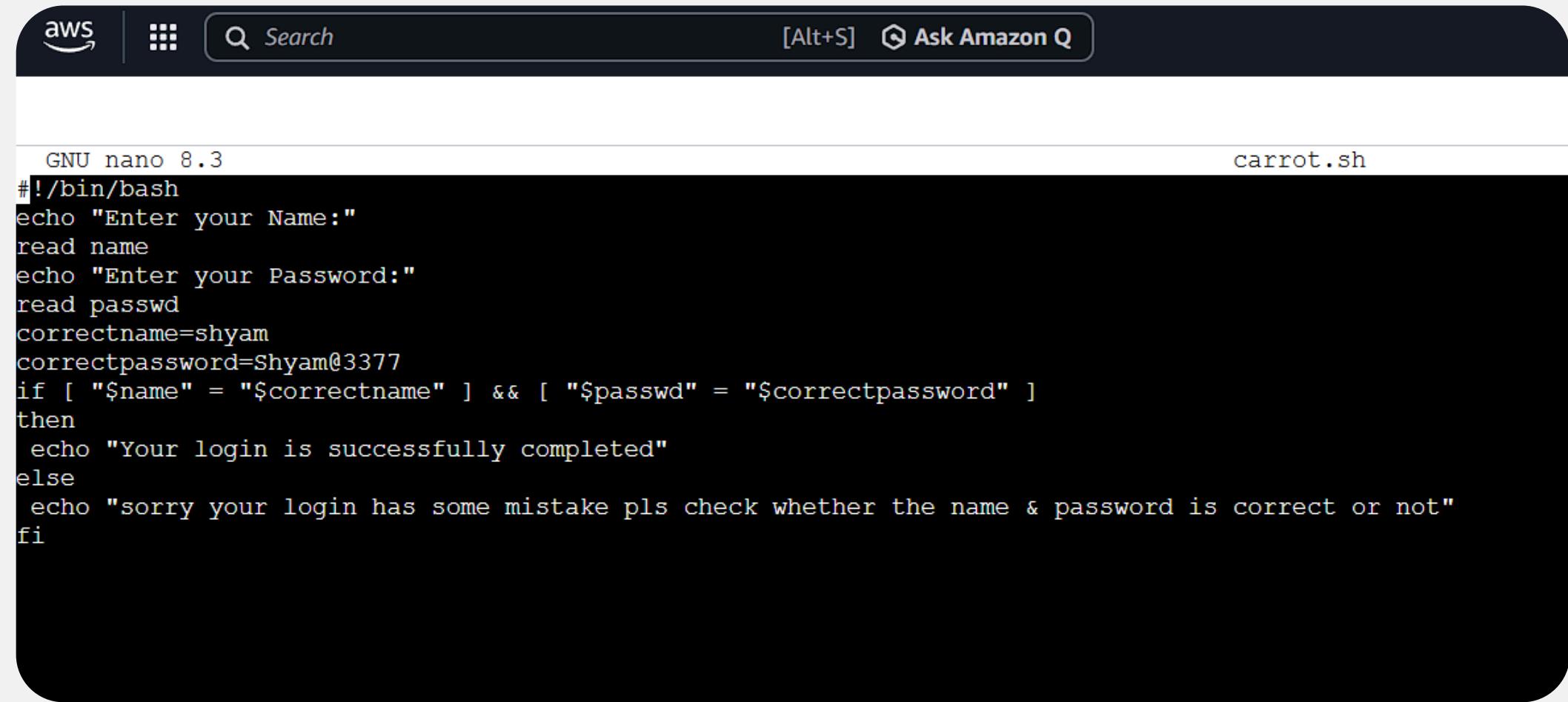
```
GNU nano 8.3
#!/bin/bash
echo "Enter the number"
read num
if [ $(($num%2)) -eq 0 ]
then
echo "Given $num is Even"
else
echo "Given $num is Odd"
fi
```

The screenshot shows a terminal window with the AWS logo in the top left corner. The title bar has a search icon and the word "Search". The terminal content shows two executions of the script. In the first, a user enters the number 7, which is identified as odd. In the second, a user enters the number 8, which is identified as even.

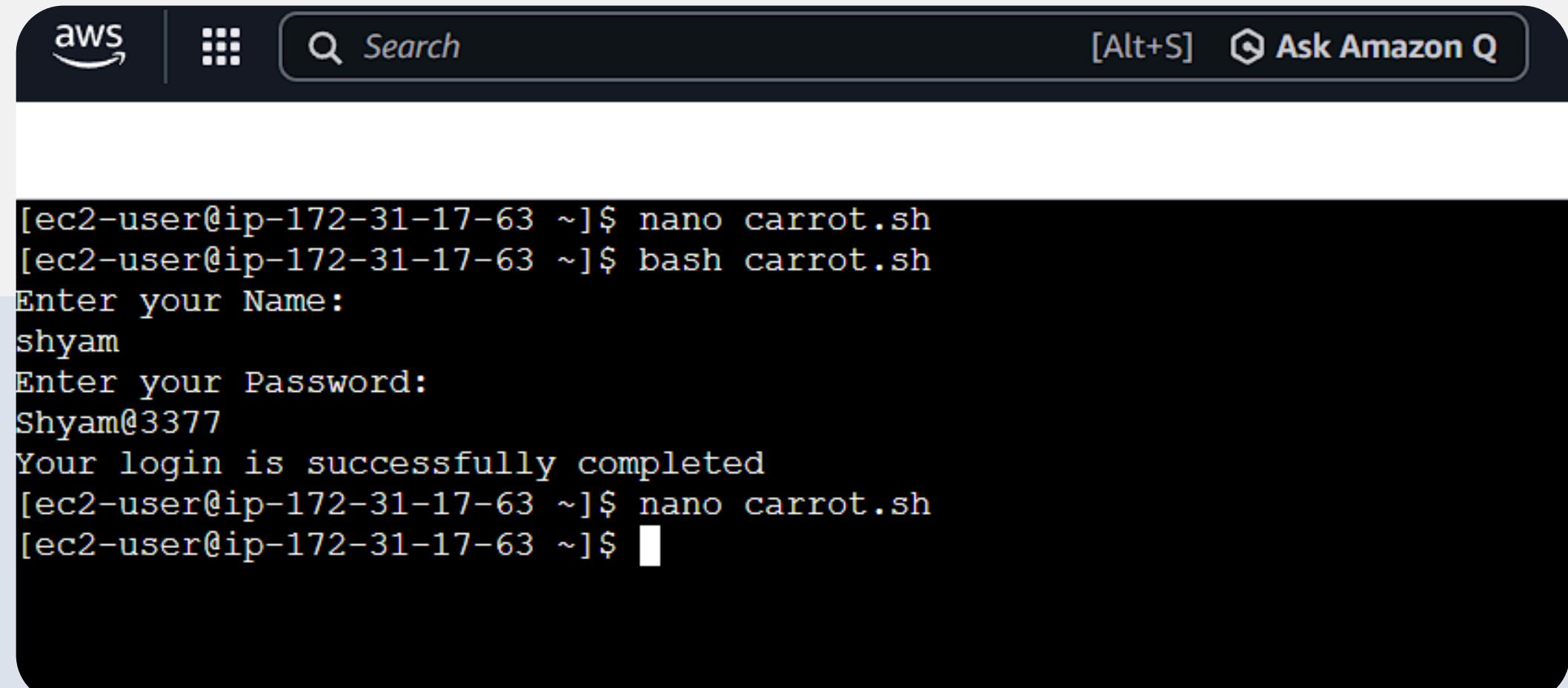
```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.
Enter the number
7
Given 7 is Odd
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.
Enter the number
8
Given 8 is Even
[ec2-user@ip-172-31-17-63 ~]$
```

12TH - TASK

To Display login



```
GNU nano 8.3
#!/bin/bash
echo "Enter your Name:"
read name
echo "Enter your Password:"
read passwd
correctname=shyam
correctpassword=Shyam@3377
if [ "$name" = "$correctname" ] && [ "$passwd" = "$correctpassword" ]
then
    echo "Your login is successfully completed"
else
    echo "sorry your login has some mistake pls check whether the name & password is correct or not"
fi
```

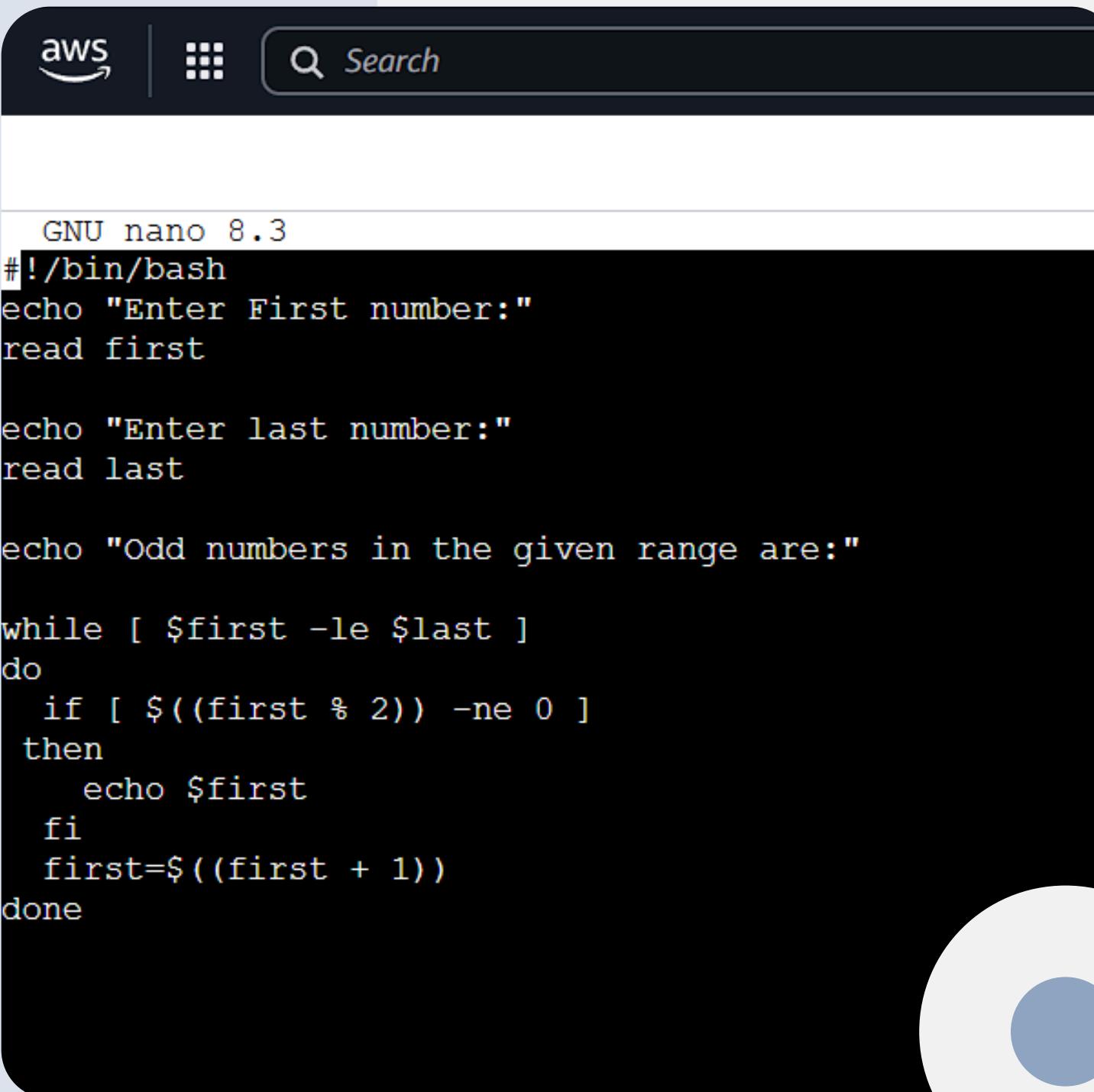


```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter your Name:
shyam
Enter your Password:
Shyam@3377
Your login is successfully completed
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$
```

To Display

13TH - TASK

odd & even between range



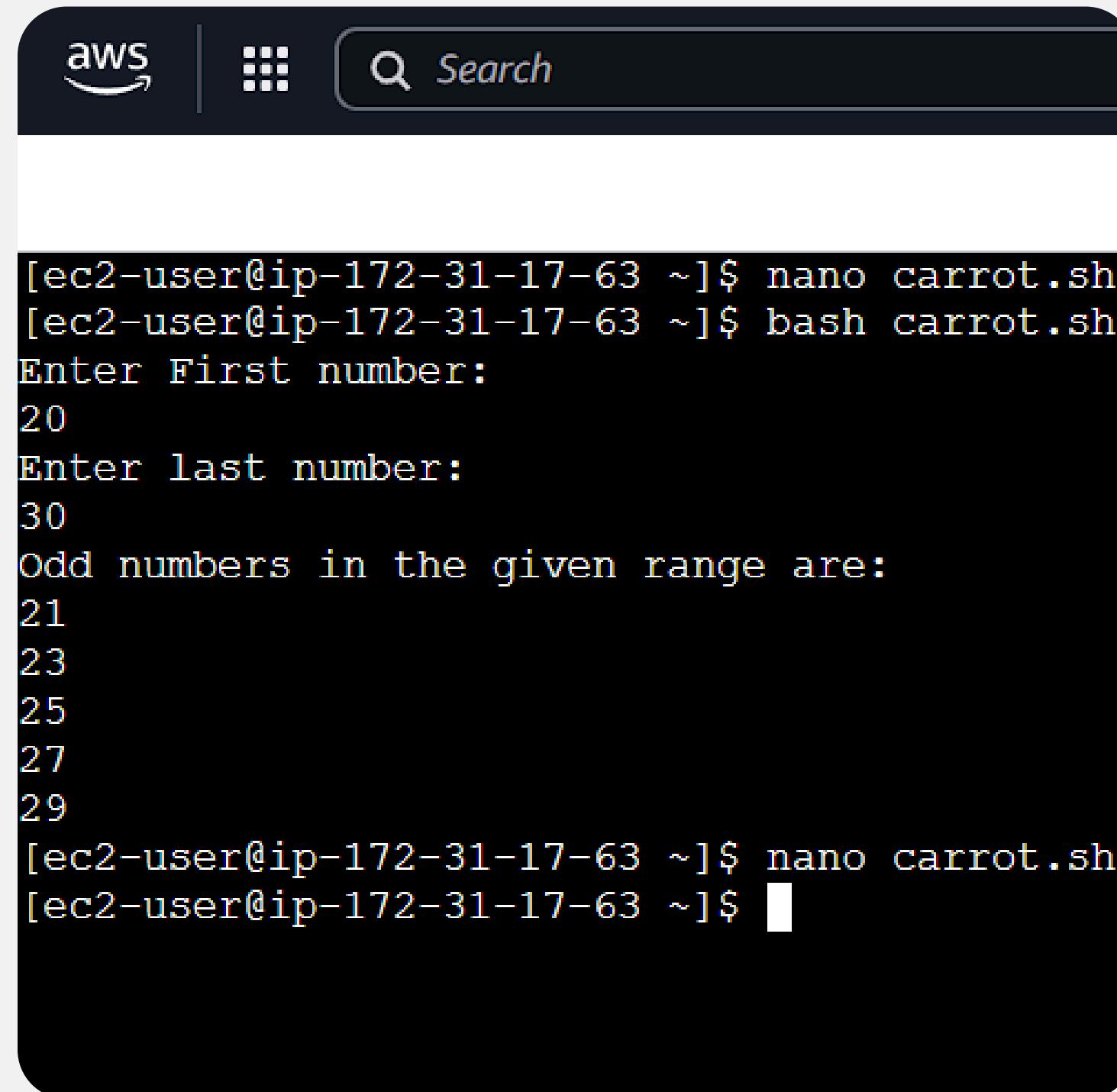
```
aws | Search

GNU nano 8.3
#!/bin/bash
echo "Enter First number:"
read first

echo "Enter last number:"
read last

echo "Odd numbers in the given range are:"

while [ $first -le $last ]
do
  if [ $((first % 2)) -ne 0 ]
  then
    echo $first
  fi
  first=$((first + 1))
done
```



```
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$ bash carrot.sh
Enter First number:
20
Enter last number:
30
Odd numbers in the given range are:
21
23
25
27
29
[ec2-user@ip-172-31-17-63 ~]$ nano carrot.sh
[ec2-user@ip-172-31-17-63 ~]$
```

Completed Task
Thankyou



shell scripting tasks has been completed