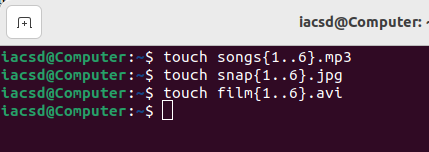
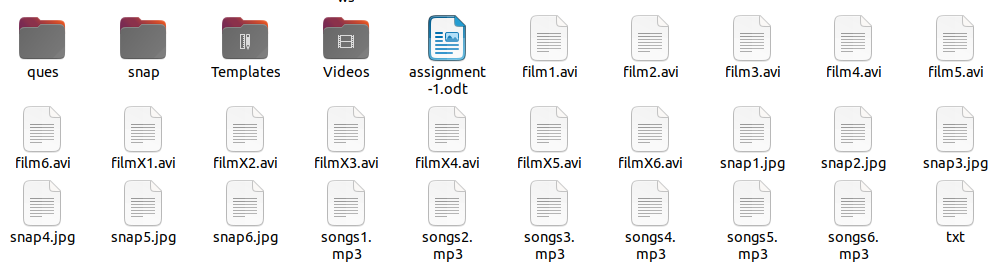
**Assignment.1**

**1. In your home directory, create sets of empty practice files**

* **Create 6 files with names of the form songsX.mp3.**
* **Create 6 files with names of the form snapX.jpg.**
* **Create 6 files with names of the form filmX.avi.**

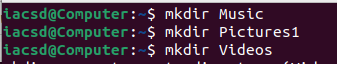
**In each set, replace X with the numbers 1 through 6.**

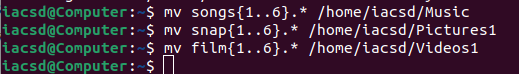


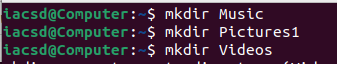


**2. From your home directory,**

* **Move songs file into your Music subdirectory.**
* **Move snap file into your Pictures subdirectory.**
* **Move your movie files into Videos subdirectory**



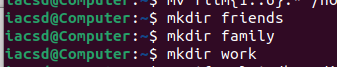


**3. Create 3 subdirectories for organizing your files named friends,family,work**

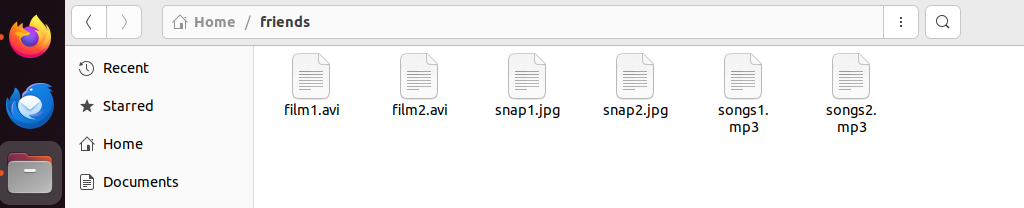
**4. Copy files (all types ) containing numbers 1 and 2 to the friends folder.**

**Copy files (all types) containing numbers 3 and 4 to the family folder.**

**Copy files (all types) containing numbers 5 and 6 to the work folder.**







**ASSIGNMENT\_1**

**Q.1 one**

**Apple**

**banana**

**cat**

**dog**

**elephant**

**two**

**fish**

**gun**

**horse**

**icecream**

**three**

**jelly**

**kitkat**

**lolipop**

**marshmallow**

**four**

**new**

**oppo**

**vivo**

**china**

**/home -> mkdir EVERYONE**

**chmod 777 EVERYONE**

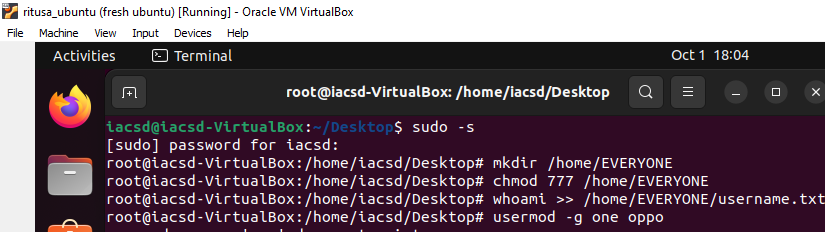
**Create a file with every user (whoami >> username.txt)**

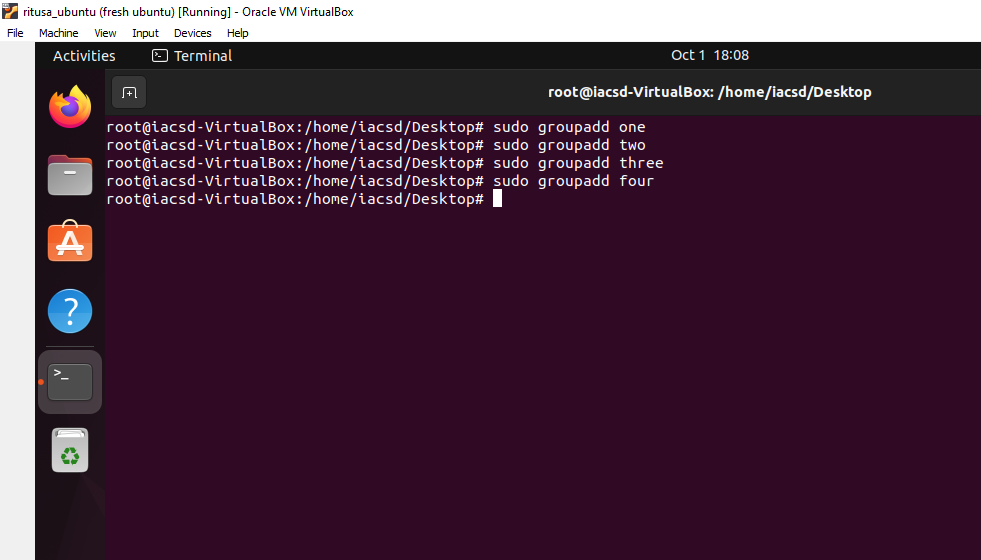
**oppo -> primary group change -> one**

**vivo -> primary group change -> two**

**jelly,kitkat, lolipop, marshmallow -> add these users to sudo group**

**fish,gun -> add these users to one group as well (secondary group)**

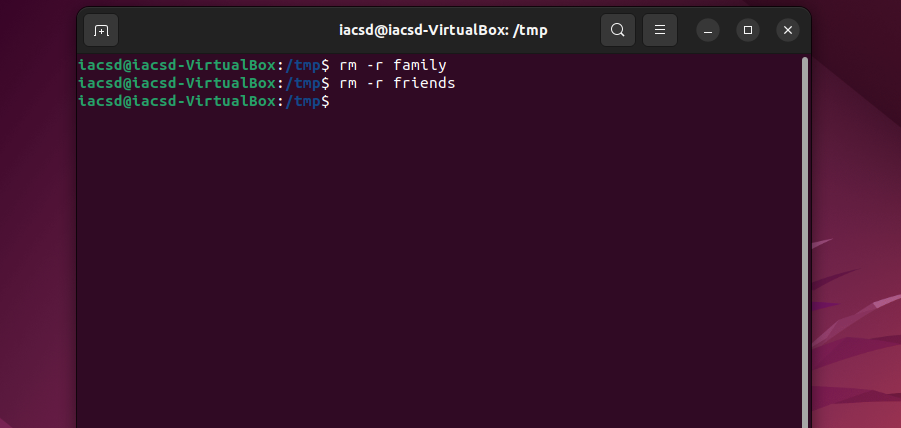




**ASSIGNMENT\_2**

**6.Delete all files in family subdirectory.**

**7. Delete friends subdirectory**



**8. Create user tom , bob , sam , prince**

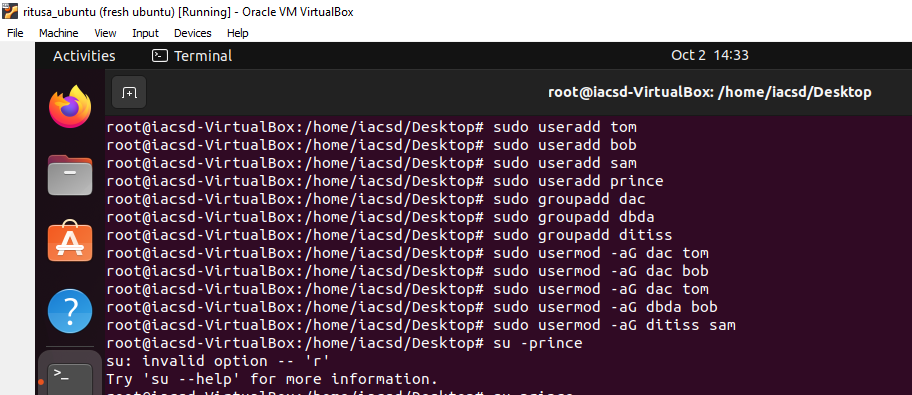
**9. Create Group dac , dbda ,ditiss**

**10. add user**

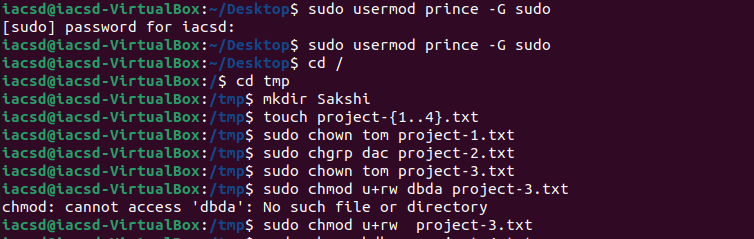
**Tom in dac**

**Bob in dbda**

**Sam in ditiss**



**11. login as prince and create iacsd directory  in /tmp and create 4 files in iacsd with name project-1 project-2 upto 4**



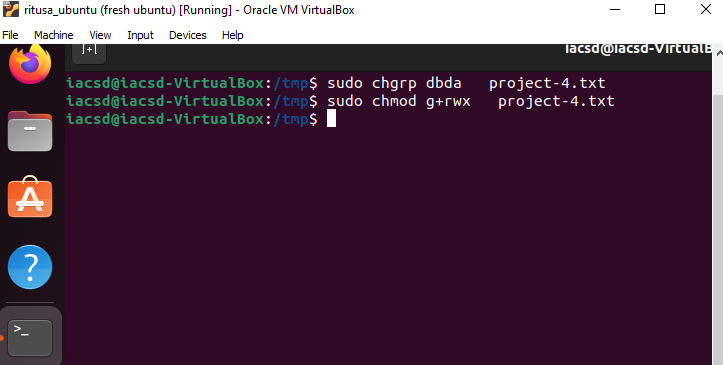
**12. assign permissions to project files as below**

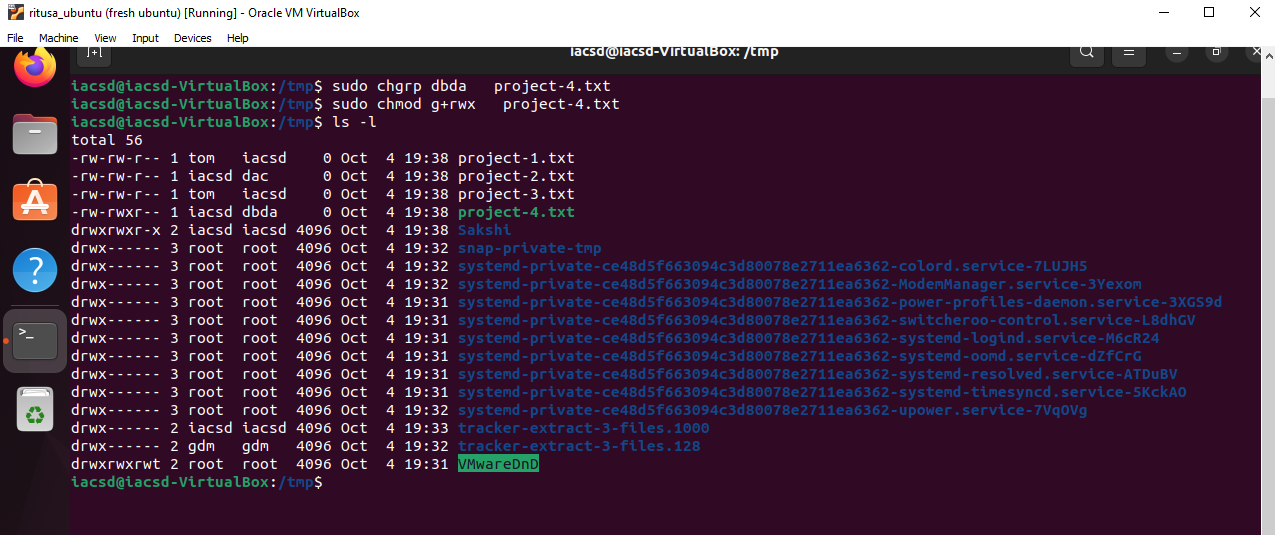
**Project-1 – tom should be owner of this**

**Project-2 – dac should be owner of this**

**Project-3 --- others should not have any permission but tom should have rw access**

**Project-4 – dbda group should have rwx permissions.**

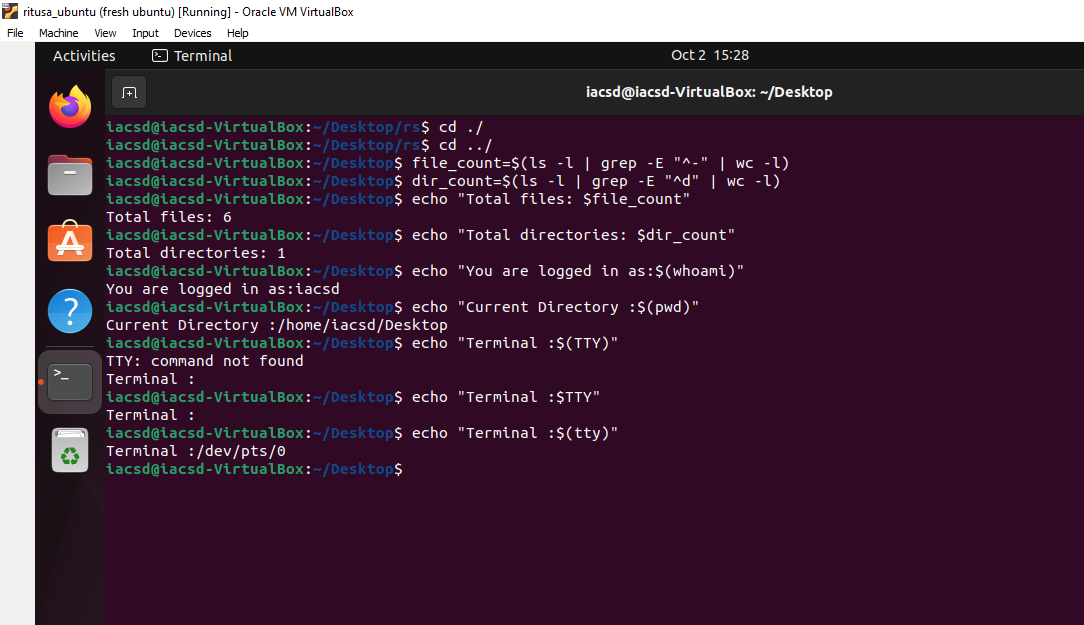




**ASSIGNMENT-4**

**1) Write a shell script tp print**

* **your are logged in as which user**
* **in which directory you are**
* **and in which terminal you are working**
* **total number of files and directories in current directory**



**2)Write a shell script to create a menu driven program for adding, deletion or finding a record in a database. Database should have the field like rollno, name, semester and marks of three subjects. Last option of the menu should be to exit the menu.**

#!/bin/bash

# creating a menu with the following options

echo "SELECT YOUR FAVORITE FRUIT";

echo "1. Apple"

echo "2. Grapes"

echo "3. Mango"

echo "4. Exit from menu "

echo -n "Enter your menu choice [1-4]: "

# Running a forever loop using while statement

# This loop will run until select the exit option.

# User will be asked to select option again and again

while :

do

# reading choice

read choice

# case statement is used to compare one value with the multiple cases.

case $choice in

# Pattern 1

1) echo "You have selected the option 1"

echo "Selected Fruit is Apple. ";;

# Pattern 2

2) echo "You have selected the option 2"

echo "Selected Fruit is Grapes. ";;

# Pattern 3

3) echo "You have selected the option 3"

echo "Selected Fruit is Mango. ";;

# Pattern 4

4) echo "Quitting ..."

exit;;

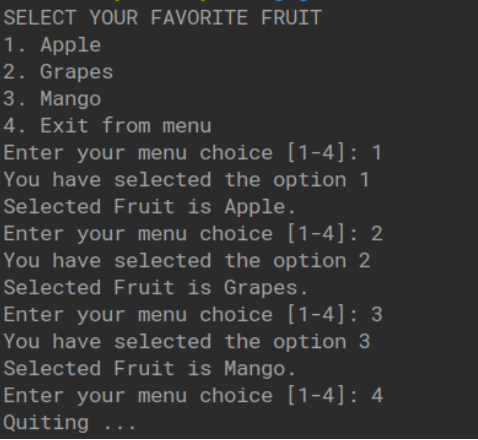
# Default Pattern

\*) echo "invalid option";;

esac

echo -n "Enter your menu choice [1-4]: "

done



**3) Write a Linux shell script to accept 10 number and tell how many are +tive, -tive and zero.**

#! /bin/bash

post=0

neg=0

zero=0

for ((i=1;i<11;i++))

do

read -p "Enter the number" a

if (($a > 0))

then

echo "$a is post"

post=$((post+1))

elif (($a < 0))

then

echo "$a is neg"

neg=$((neg+1))

else

echo "$a is zero"

zero=$((zero+1))

fi

done

echo "the total postive numbers are: $post"

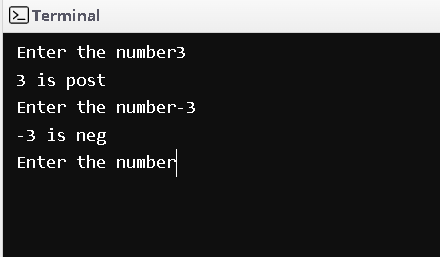
echo "--------------------------------------------"

echo "the total negative numbers are:$neg"

echo "--------------------------------------------"

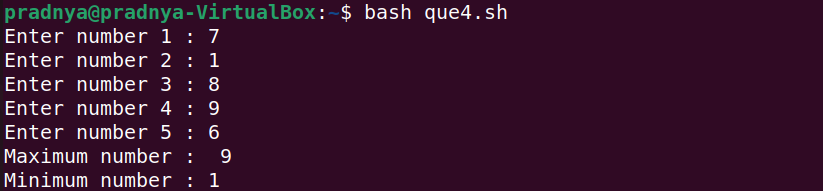
echo "the total zero are: $zero"

**output:**

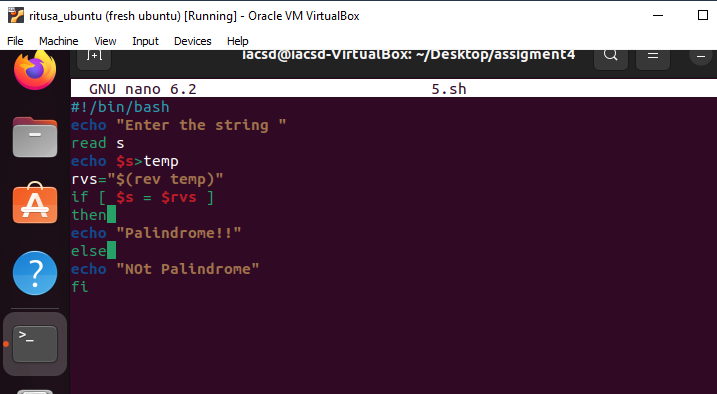
****

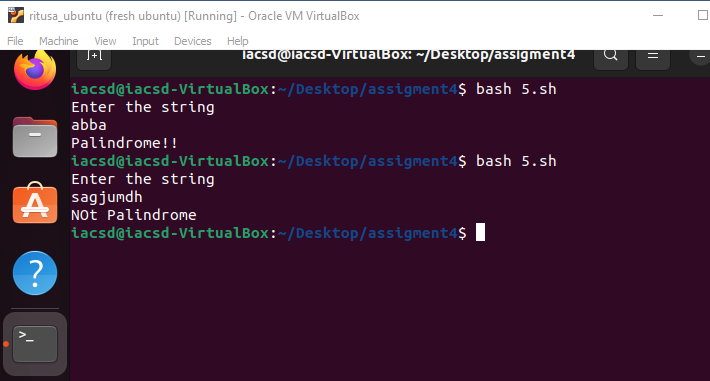
**4) Write a shell script to accept five number and display max and min value.**



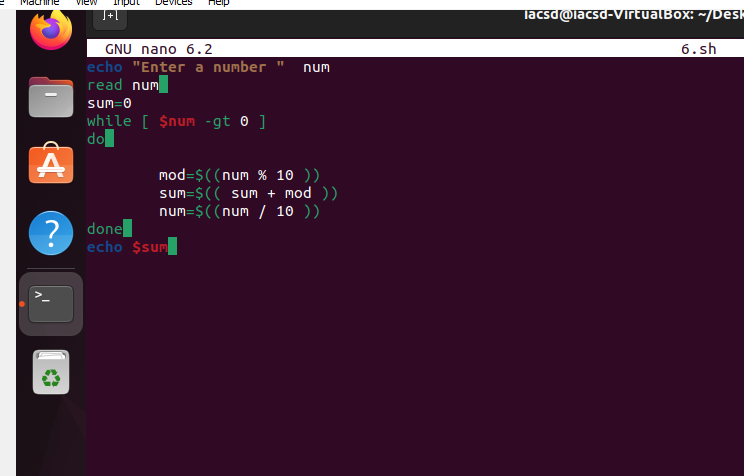


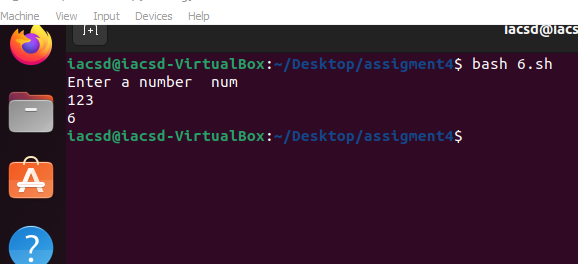
**5) Write a script to find out String is palindrome or not.**





**6) Write a shell script to print given number’s sum of all digits (eg. If number is 123, then it’s sum of all digits will be 1+2+3=6)**





**7) Create a script to**

**Create user , Delete user , Create group , delete Group using case**

#! /bin/bash

echo &quot;press 1 to creat the user&quot;

echo &quot;press 2 to delete the user&quot;

echo &quot;press 3 to creat the group&quot;

echo &quot;press 4 to delete the group&quot;

echo &quot;-------------------------------------------------&quot;

read -p &quot;Enter the number&quot; num

case $num in

1)read -p &quot;Enter the name of user&quot; a

adduser $a

;;

2)deluser $a

;;

3)read -p &quot;Enter the name of group&quot; b

addgroup $b

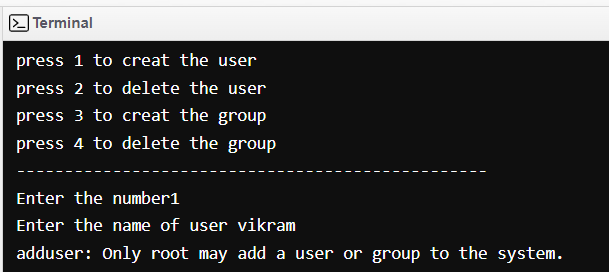
;;

4)groupdel $b

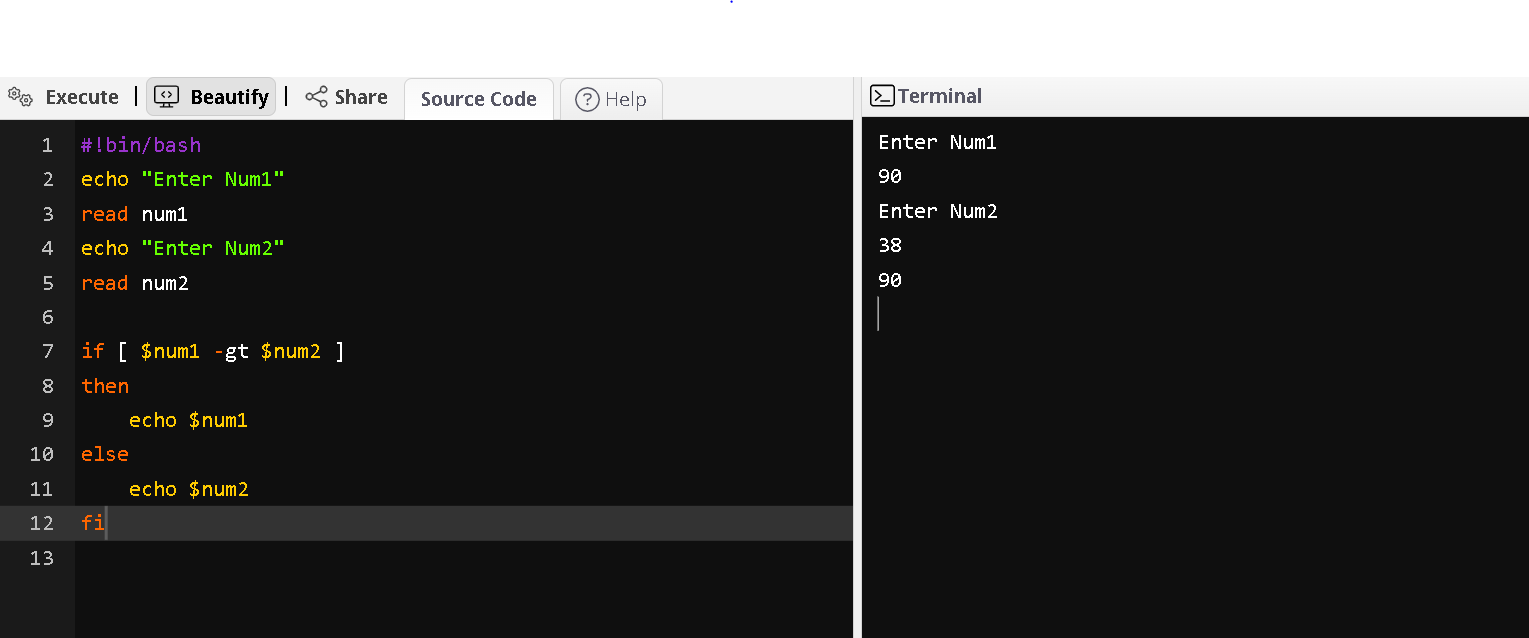
;;

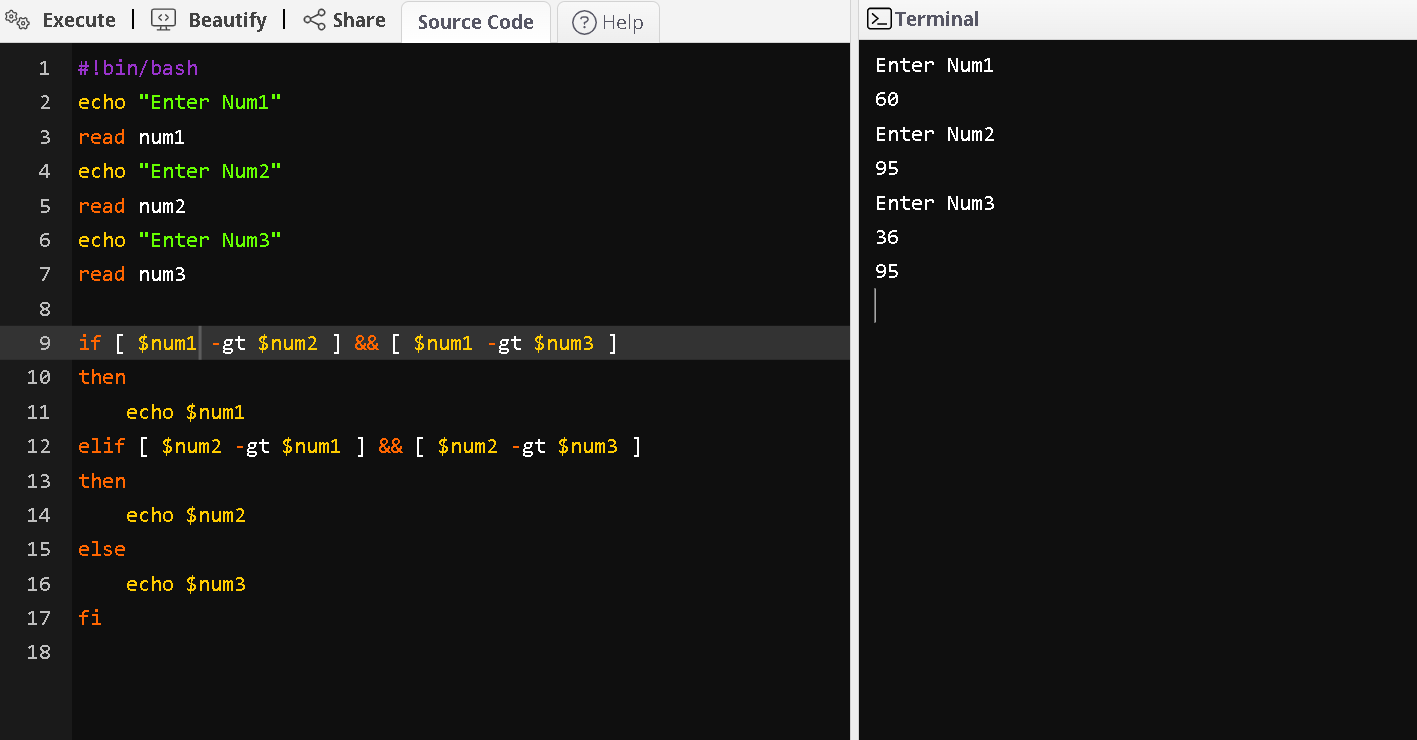
5)echo &quot;Enter the vaid option&quot;

Esac

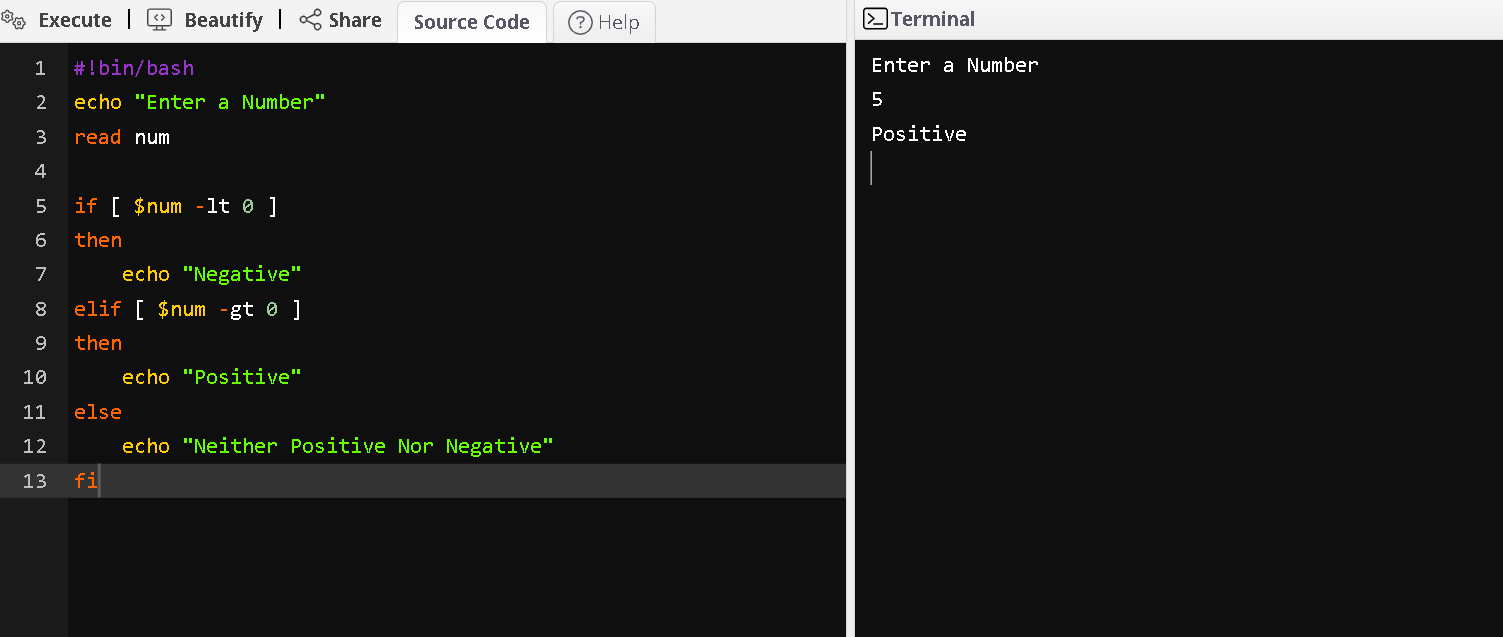


**EXERCISE**

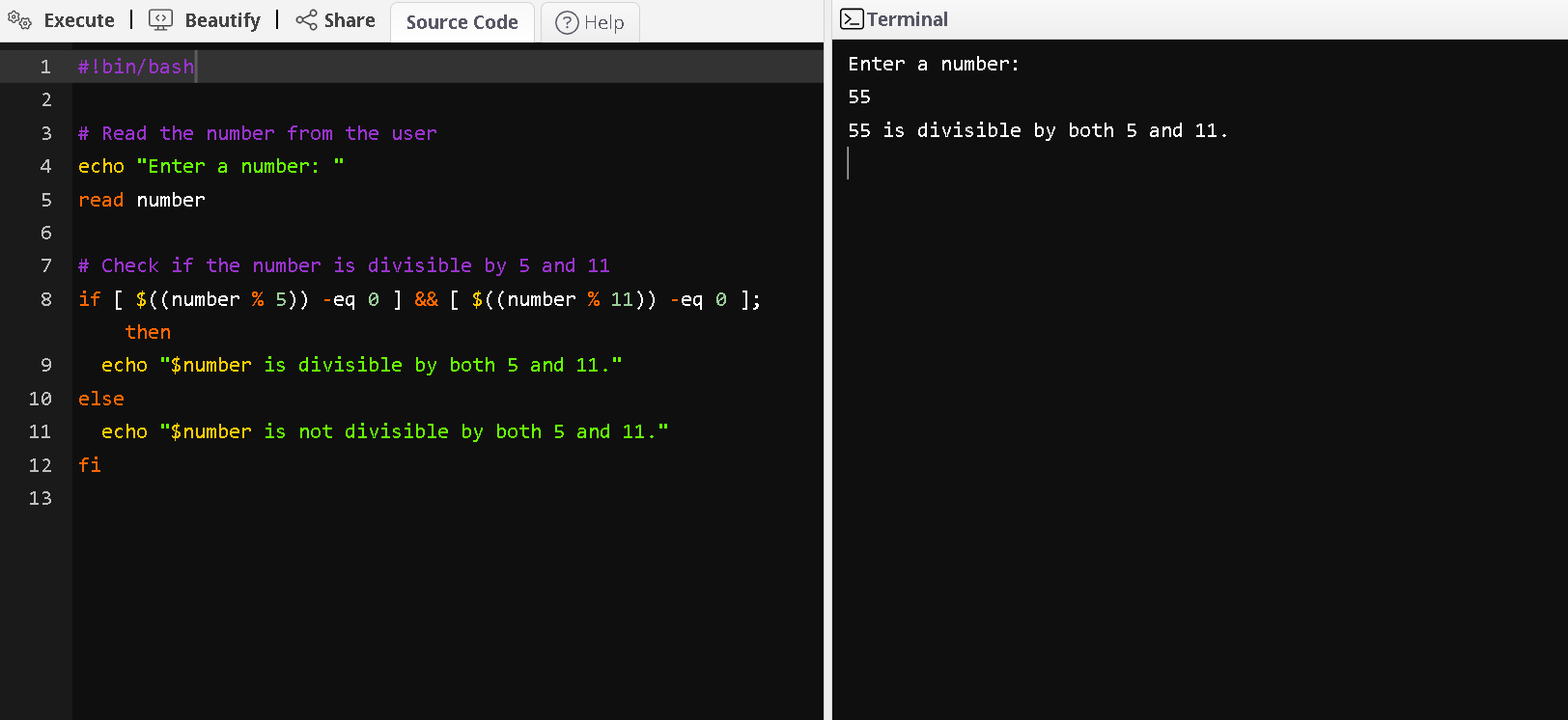
1. **Write a Shell Script to find maximum between two numbers.**
2. **Write a Shell Script to find maximum between three numbers.**

****

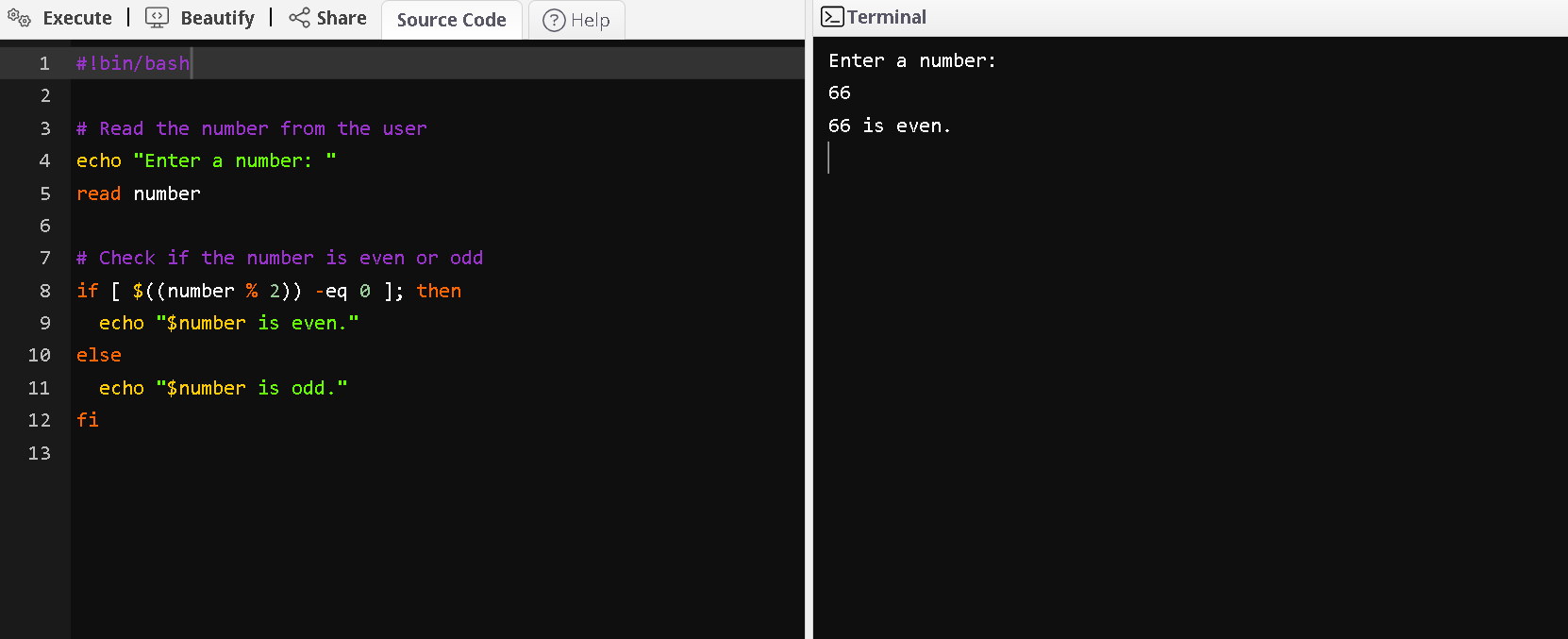
**3.Write a Shell Script to check whether a number is negative, positive or zero.**

****

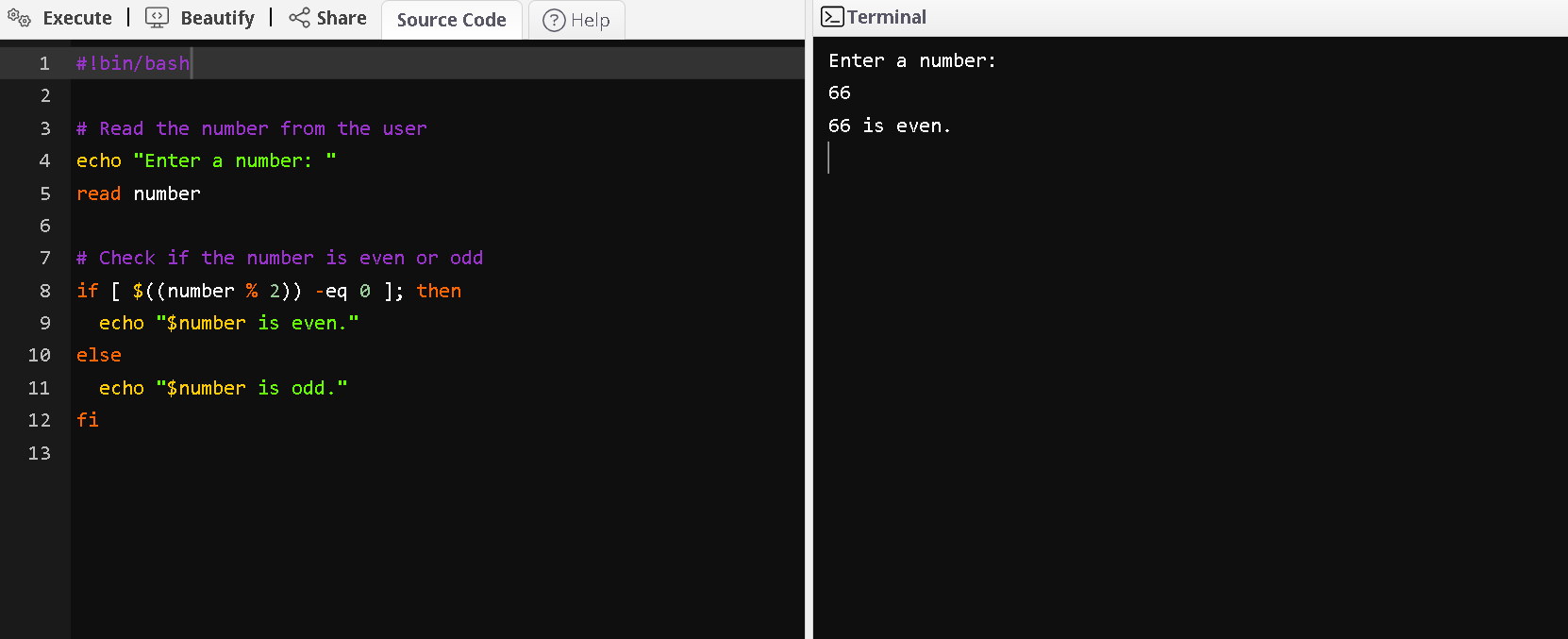
**4.Write a Shell Script to check whether a number is divisible by 5 and 11 or not.**

****

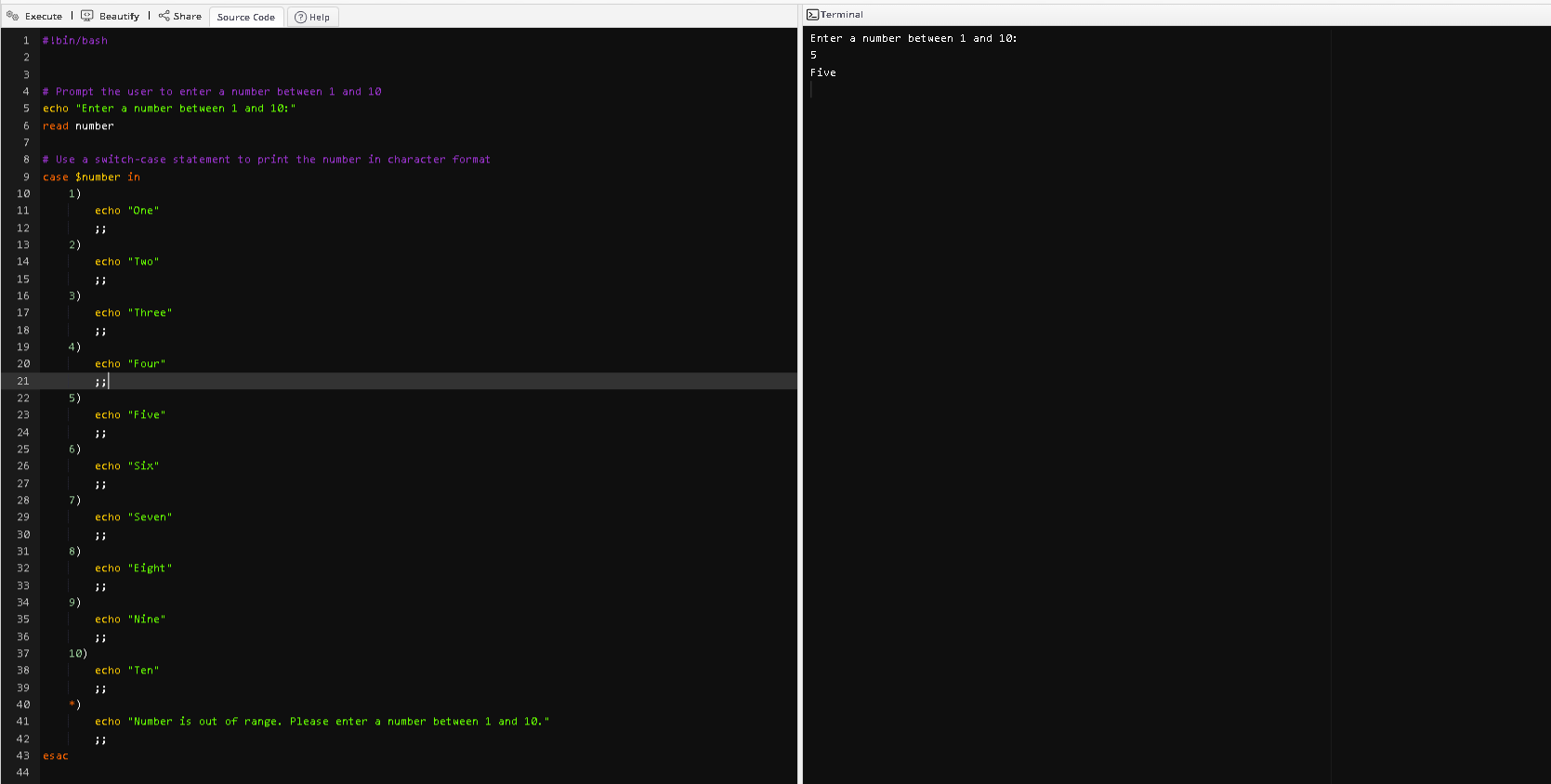
**5.Write a Shell Script to check whether a number is even or odd.**

****

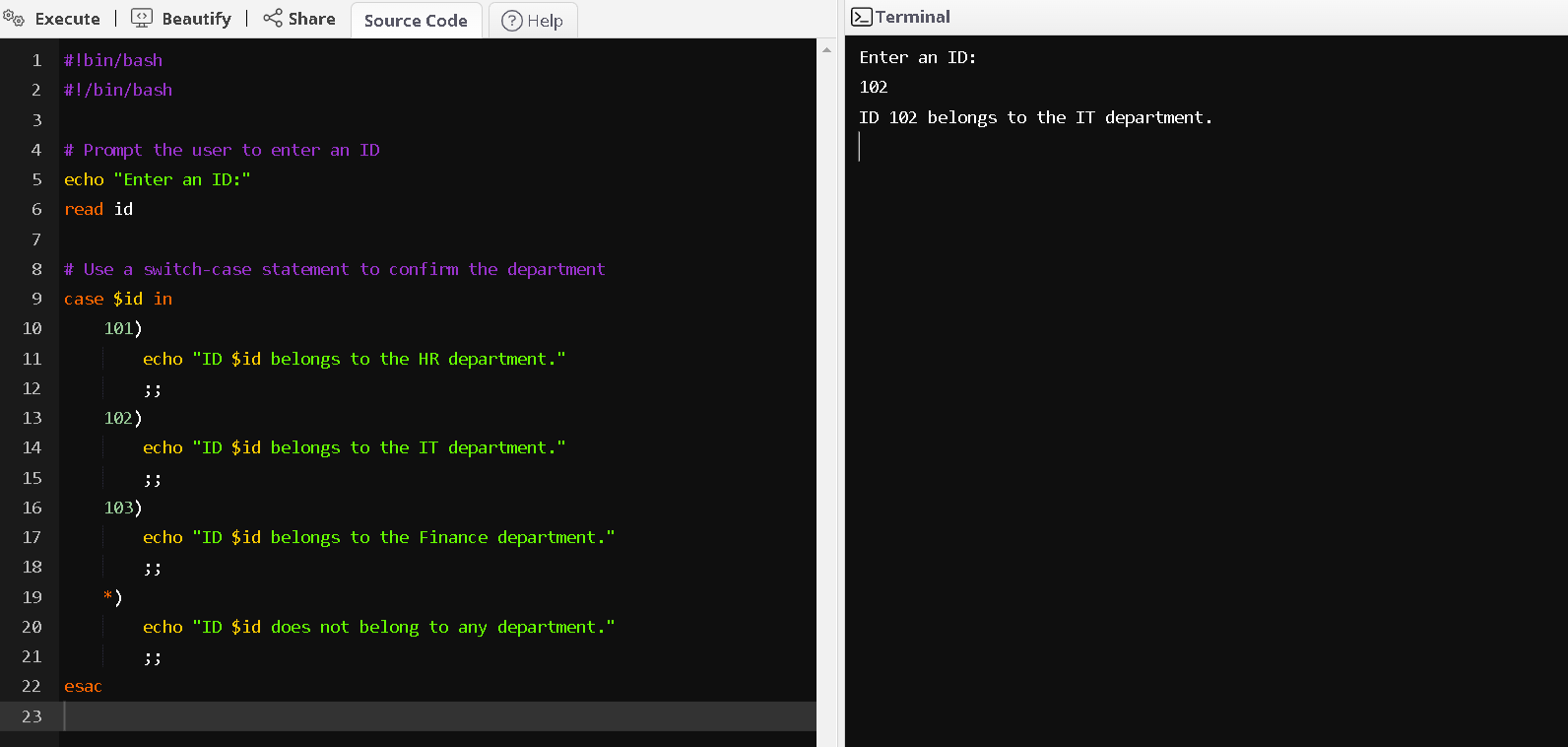
**6.Write a Shell Script to check whether a year is leap year or not.**

****

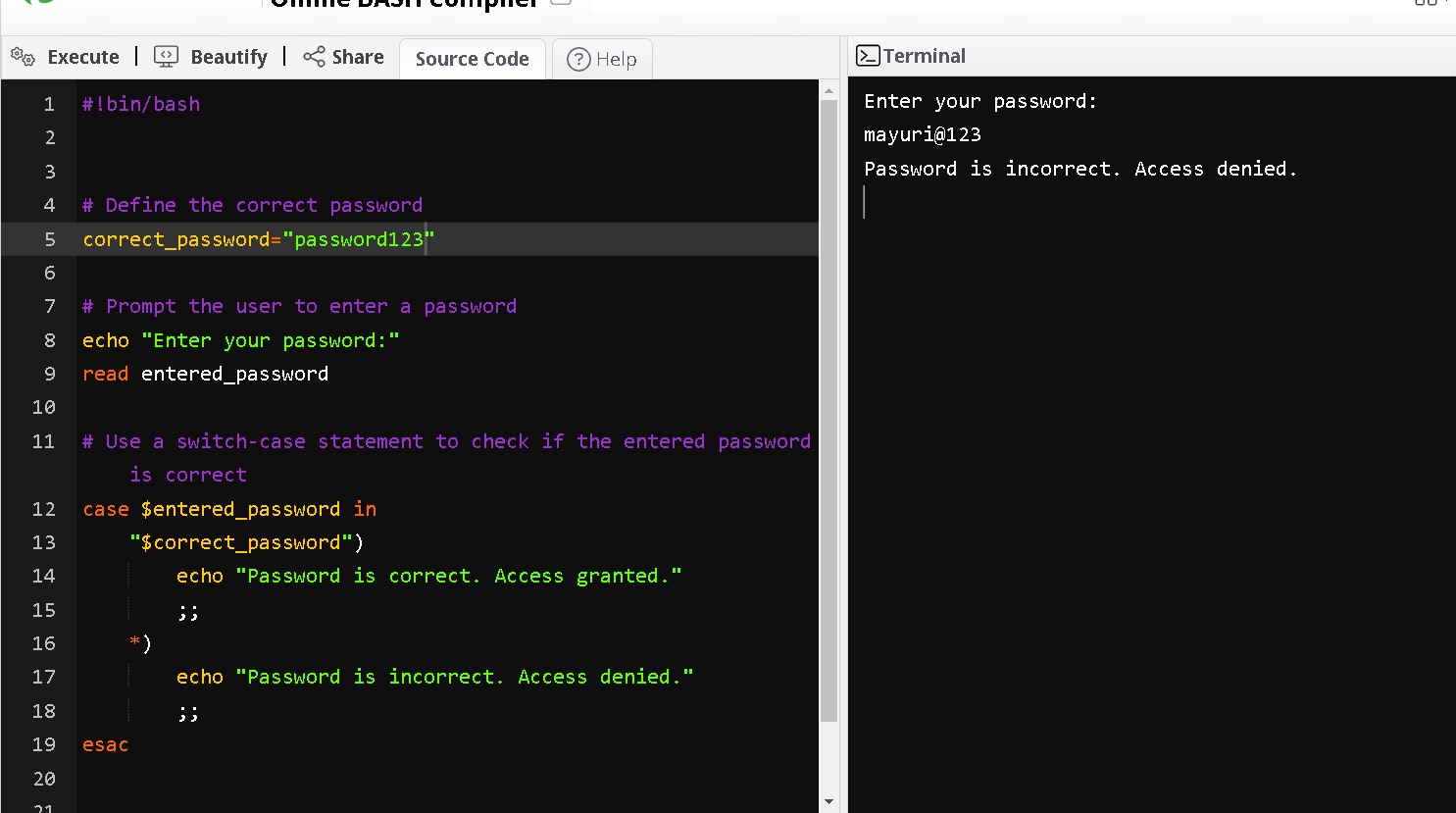
**7.Shell Script to print number between 1 to 10 in character format using switch-case.**

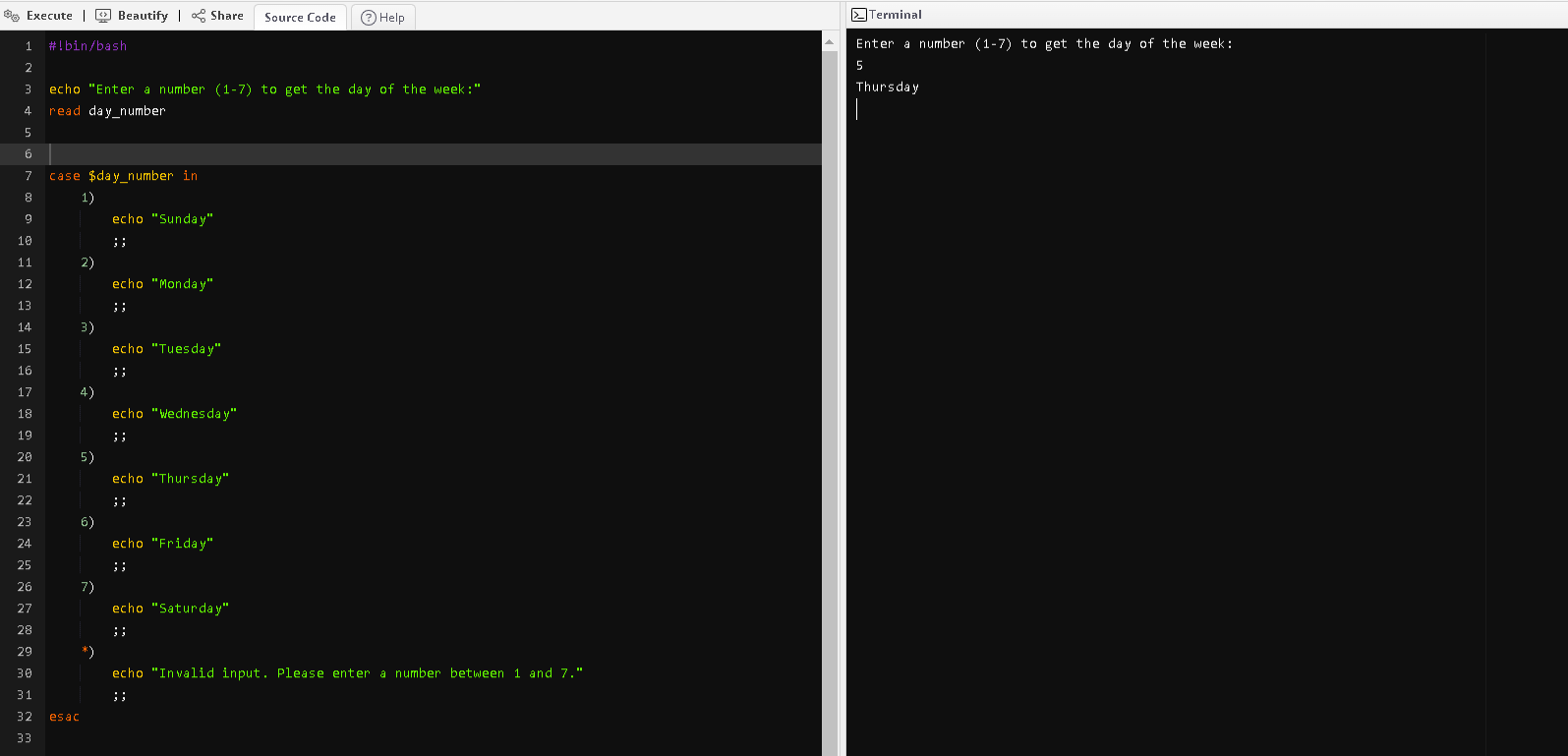
****

**8.Shell Script to accept id from user to confirm department using switch-case.**

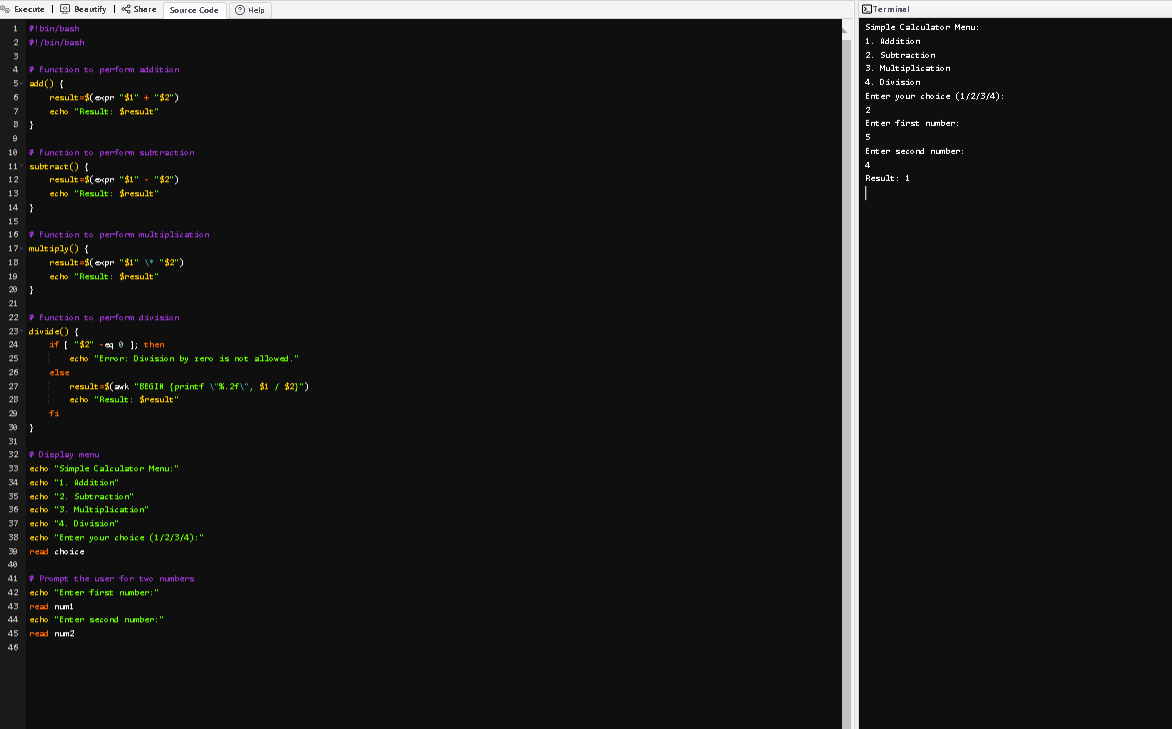
****

**9.Shell Script to check password is correct or incorrect using switch-case.**

****

**10.Shell Script to print day of week using switch-case.**

**11.Shell Script to create calculator using switch-case.**

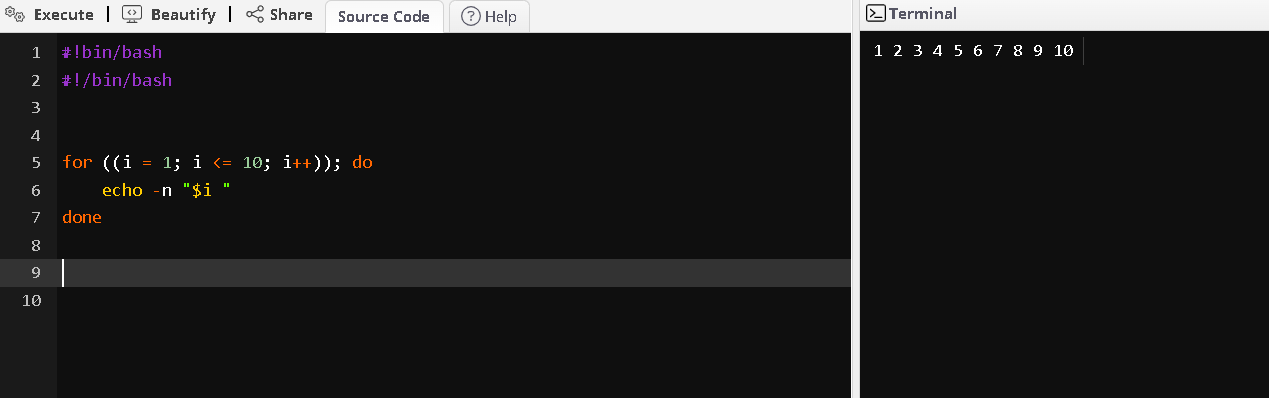
****

**FOR LOOP ASSIGNMENT**

**1. Shell Script to display the first 10 natural numbers.**

**Expected Output :**

**1 2 3 4 5 6 7 8 9 10**

****

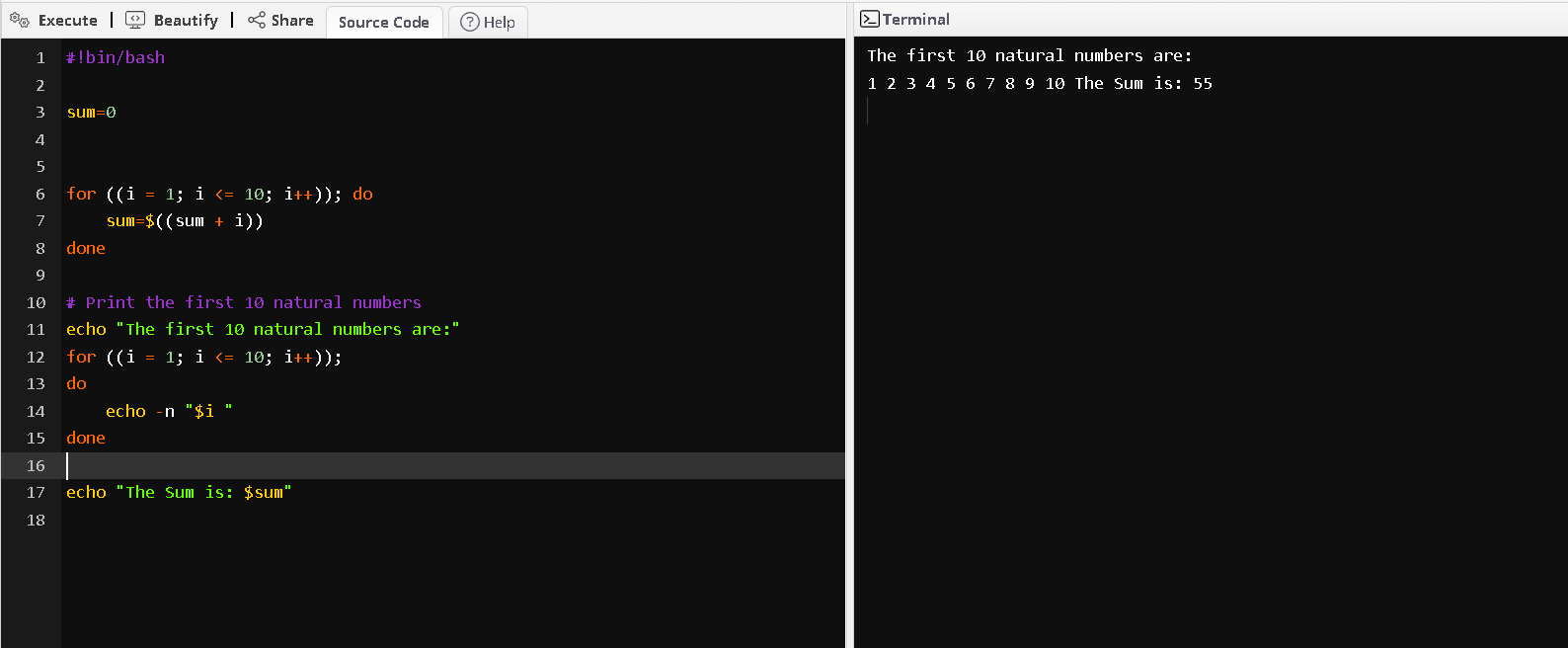
**2. Shell Script to compute the sum of the first 10 natural numbers.**

**Expected Output :**

**The first 10 natural number is :**

**1 2 3 4 5 6 7 8 9 10**

**The Sum is : 55**

**Output:**

**3. Shell Script to display n terms of natural numbers and their sum.**

**Test Data : 7**

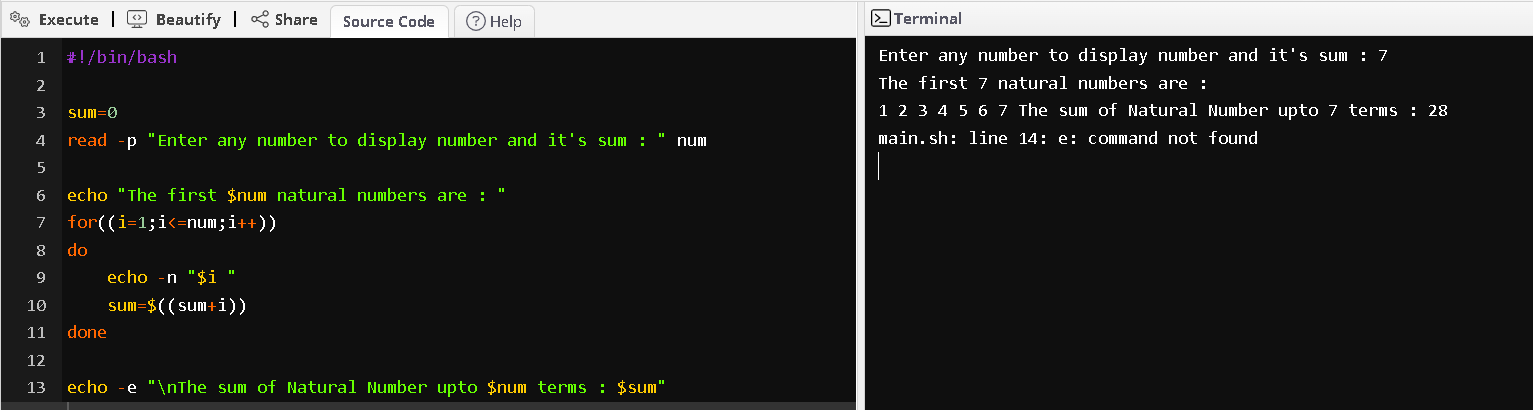
**Expected Output :**

**The first 7 natural number is :**

**1 2 3 4 5 6 7**

**The Sum of Natural Number upto 7 terms : 28**

**Output:**

****

**4. Shell Script to read 10 numbers from the keyboard and find their sum and average.**

**Test Data :**

**Input the 10 numbers :**

**Number-1 :2**

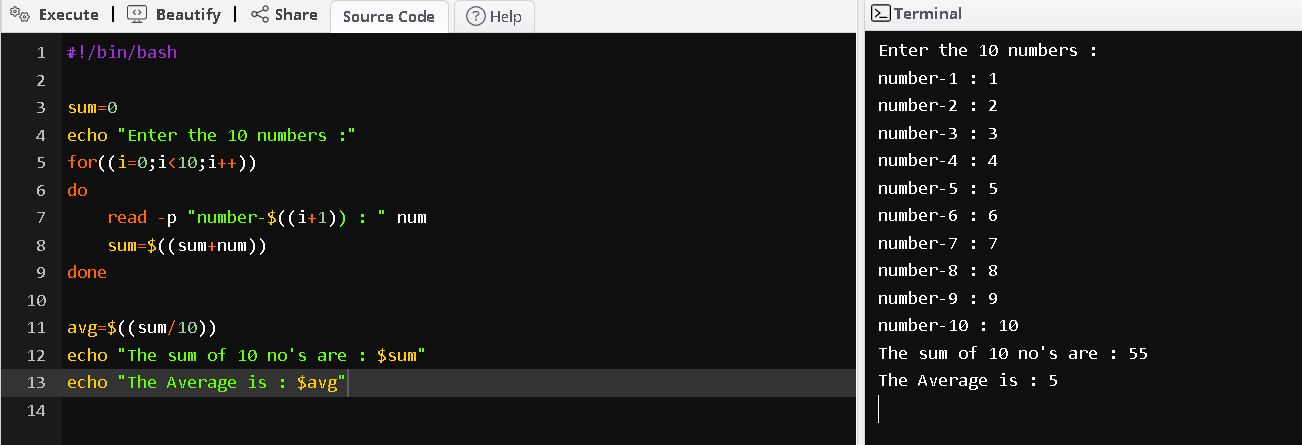
**...**

**Number-10 :2**

**Expected Output :**

**The sum of 10 no is : 55**

**The Average is : 5.500000**

**Output:**

**5. Shell Script to display the cube of the number up to an integer.**

**Test Data :**

**Input number of terms : 5**

**Expected Output :**

**Number is : 1 and cube of the 1 is :1**

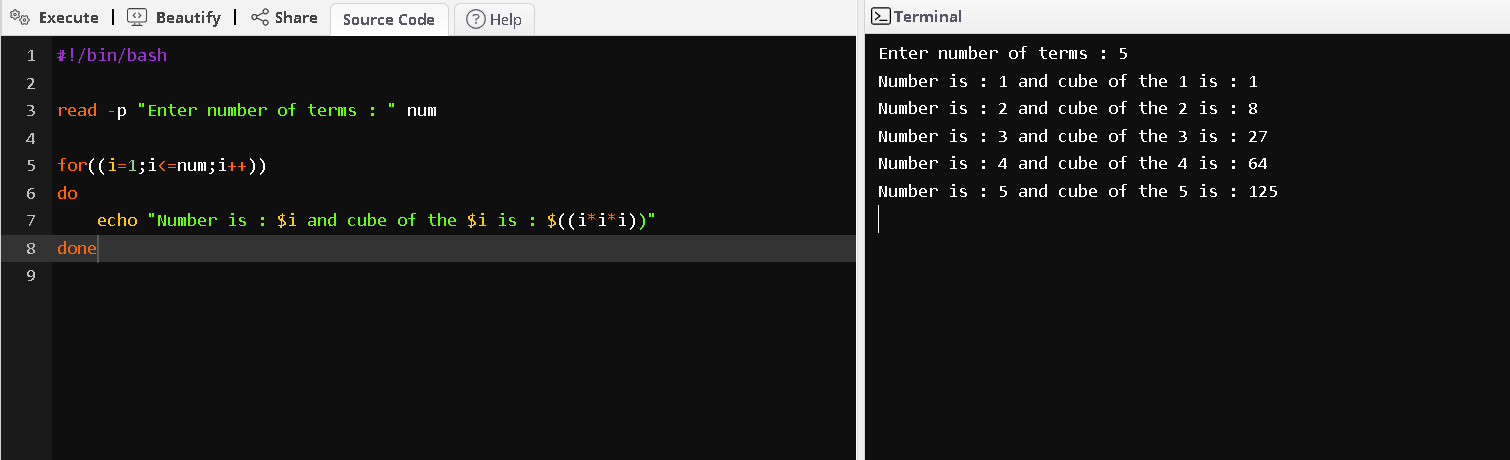
**Number is : 2 and cube of the 2 is :8**

**Number is : 3 and cube of the 3 is :27**

**Number is : 4 and cube of the 4 is :64**

**Number is : 5 and cube of the 5 is :125**

**Output:**

****

**6. Shell Script to display the multiplication table for a given integer.**

**Test Data :**

**Input the number (Table to be calculated) : 15**

**Expected Output :**

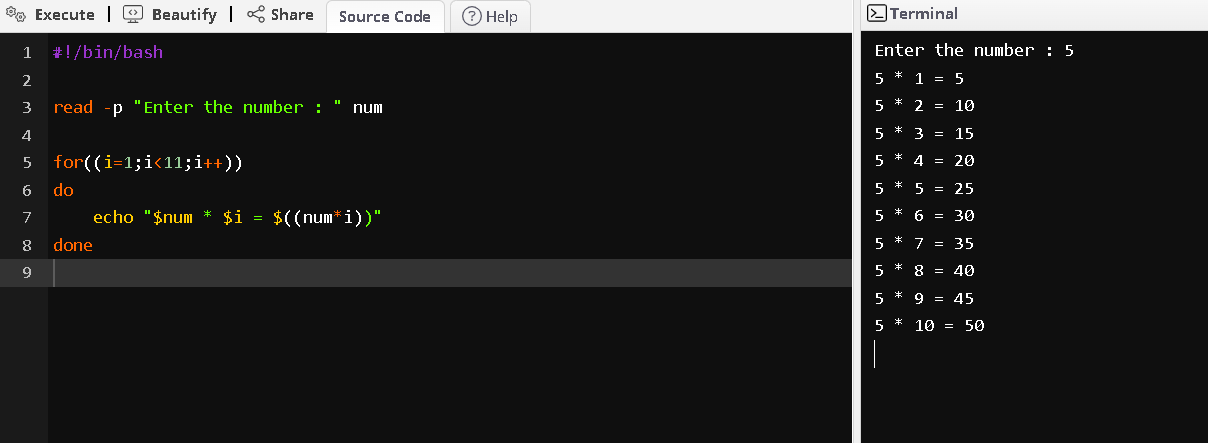
**15 X 1 = 15**

**...**

**...**

**15 X 10 = 150**

**Output:**

****

**7. Shell Script to display the multiplier table vertically from 1 to n.**

**Test Data :**

**Input upto the table number starting from 1 : 8**

**Expected Output :**

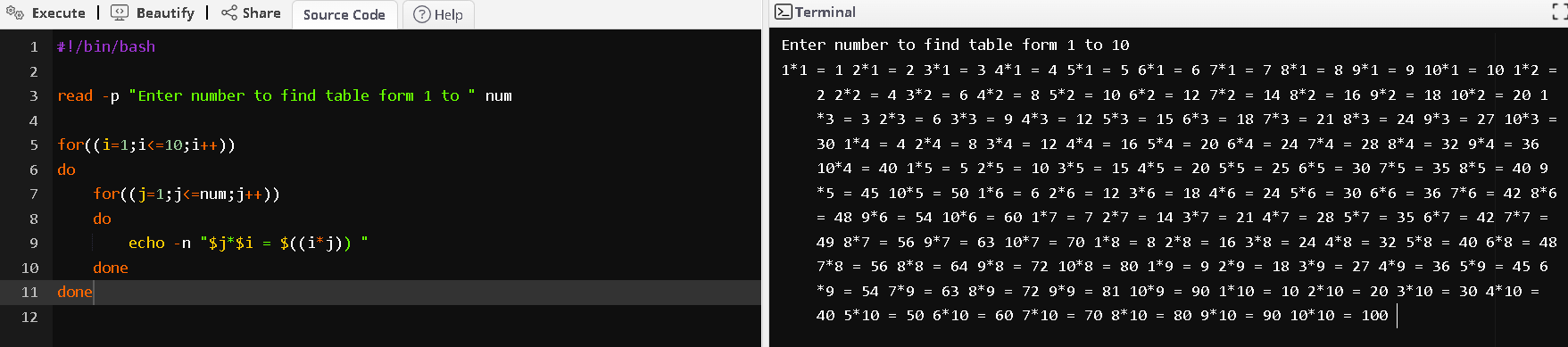
**Multiplication table from 1 to 8**

**1x1 = 1, 2x1 = 2, 3x1 = 3, 4x1 = 4, 5x1 = 5, 6x1 = 6, 7x1 = 7, 8x1 = 8**

**...**

**1x10 = 10, 2x10 = 20, 3x10 = 30, 4x10 = 40, 5x10 = 50, 6x10 = 60, 7x10 = 70, 8x10 = 80**

**Output:**

****

**8. Shell Script to display the n terms of odd natural numbers and their sum.**

**Test Data**

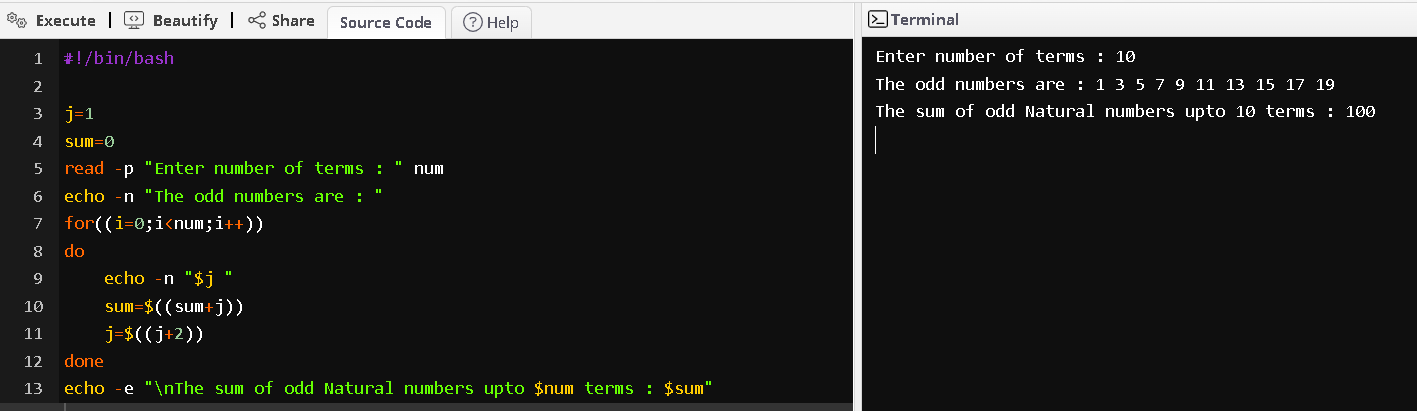
**Input number of terms : 10**

**Expected Output :**

**The odd numbers are :1 3 5 7 9 11 13 15 17 19**

**The Sum of odd Natural Number upto 10 terms : 100**

**Output:**

****

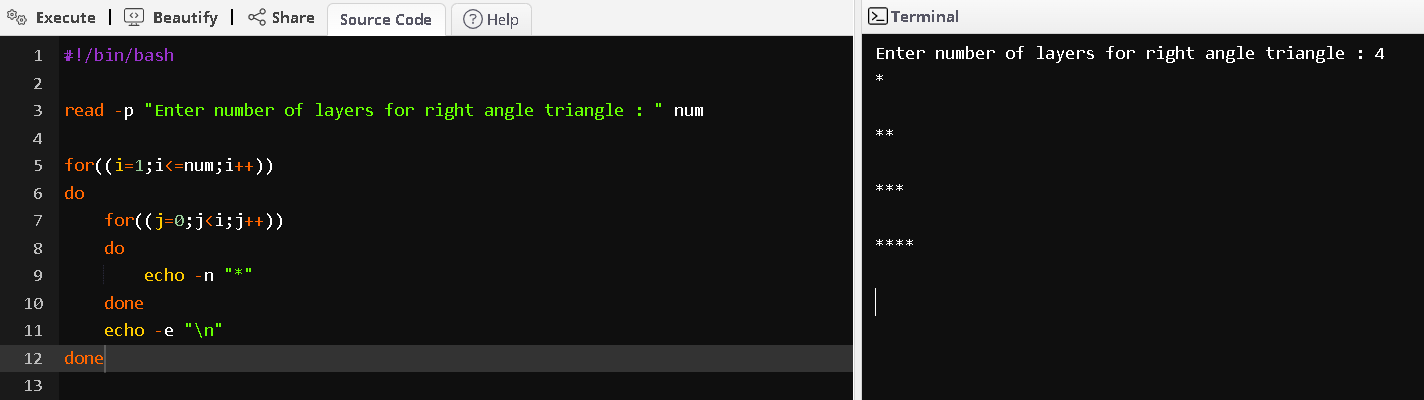
**9. Shell Script to display a pattern like a right angle triangle using an asterisk.**

**The pattern like :**

**\***

**\*\***

**\*\*\***

**Output:**

**10. Shell Script to display a pattern like a right angle triangle with a number.The pattern like :**

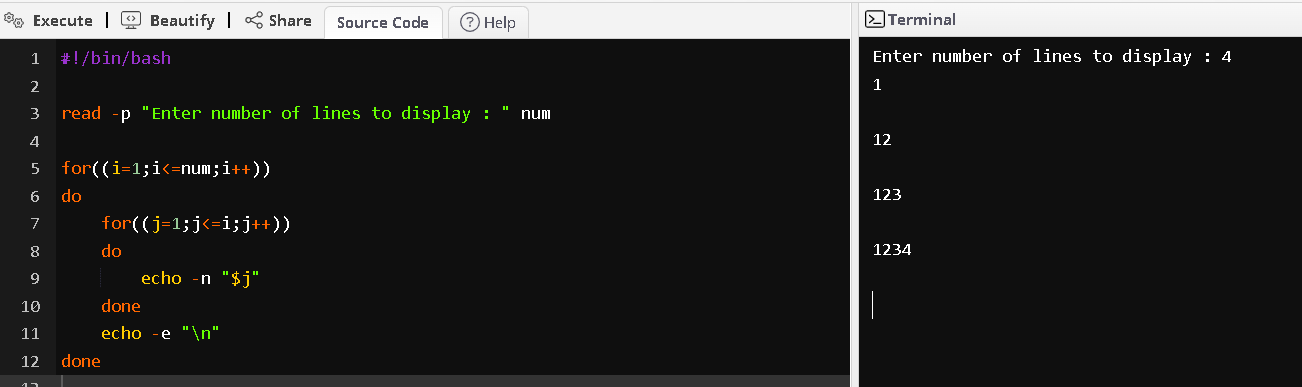
**1**

**12**

**123**

**1234**

**Output:**

****

**11. Shell Script to make such a pattern like a right angle triangle with a number which will repeat a number in a row.The pattern like :**

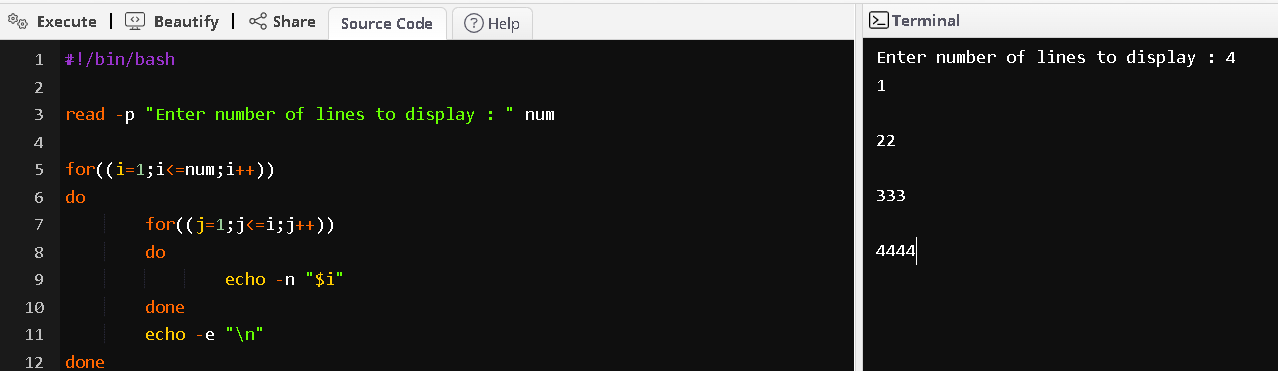
**1**

**22**

**333**

**4444**

**Output:**

****

**12. Shell Script to make such a pattern like a right angle triangle with the number increased by 1.**

**The pattern like :**

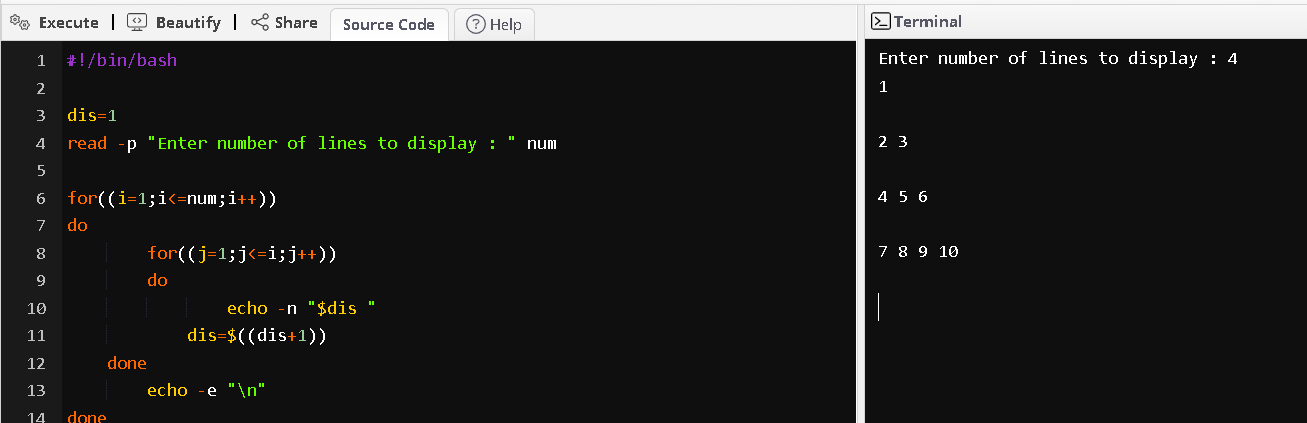
**1**

**2 3**

**4 5 6**

**7 8 9 10**

**Output:**

****