***:OS ASSIGNMENT***

**ASSIGNMENT : 1 TXT**

**Q1)**

**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**

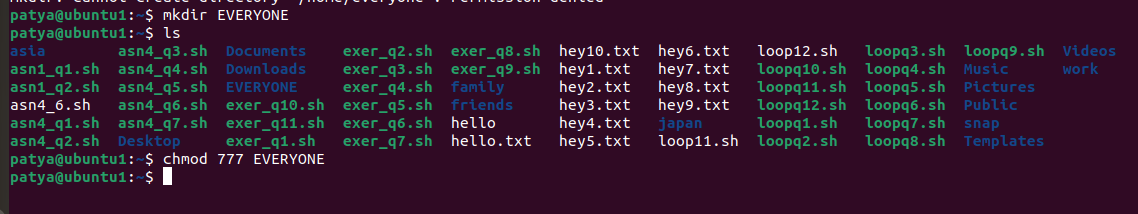
**Create a file with every user (whoami >> username.txt)**

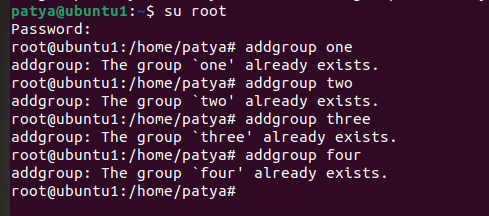
**oppo -> primary group change -> one**

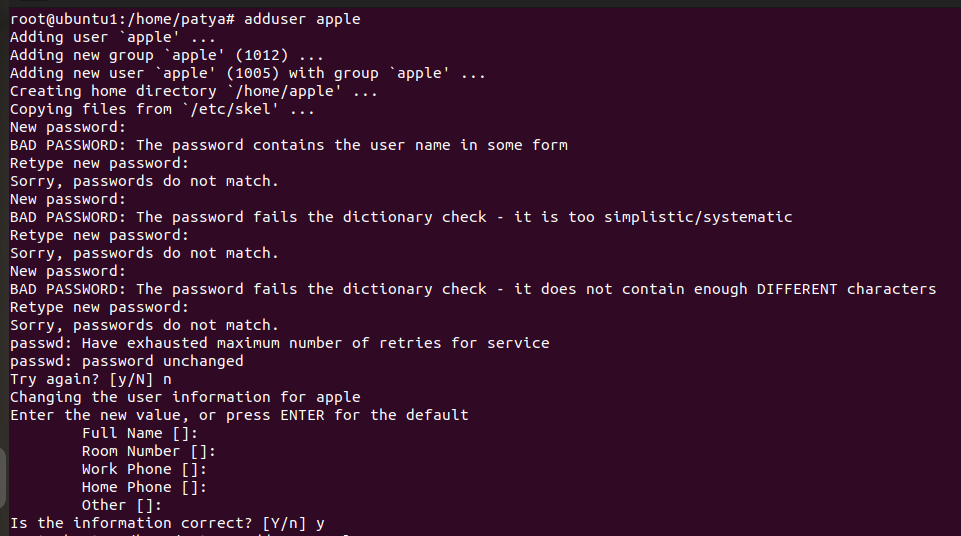
**vivo -> primary group change -> two**

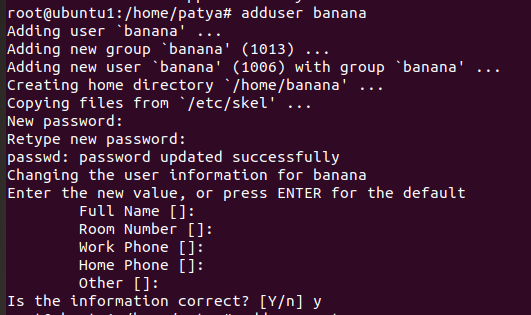
**jelly,kitkat, lolipop, marshmallow -> add these users to sudo group**

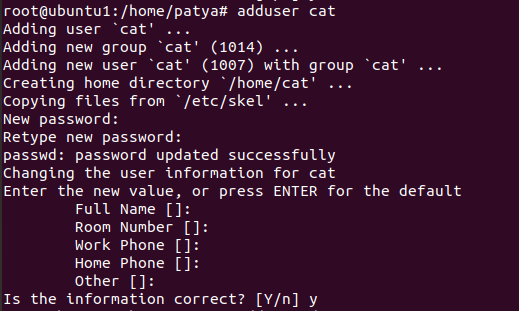
**fish,gun -> add these users to one group as well (secondary group)**

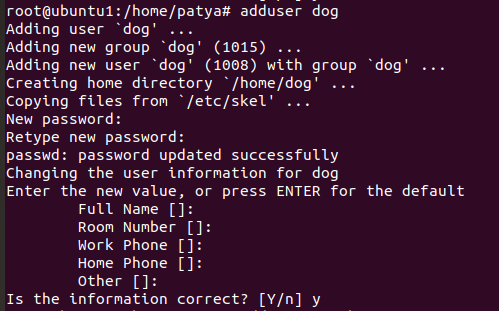
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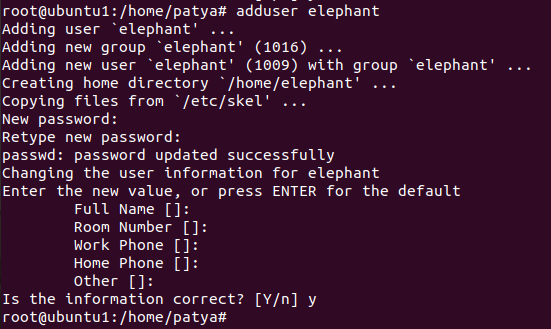
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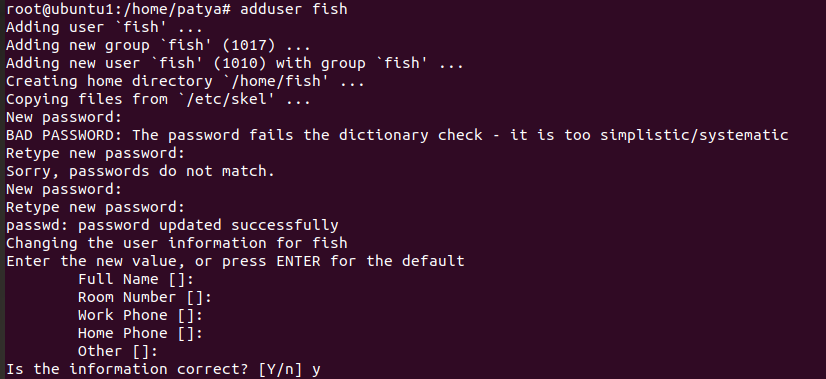
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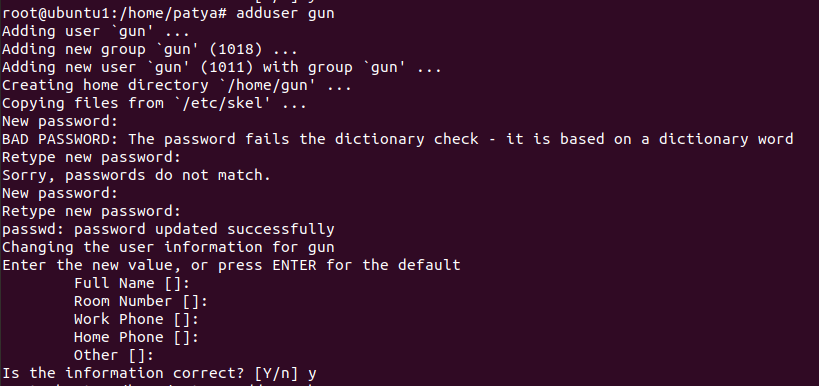
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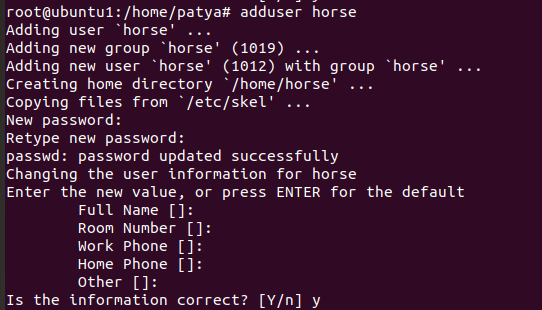
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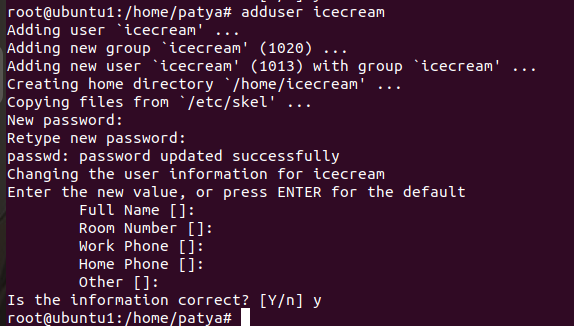
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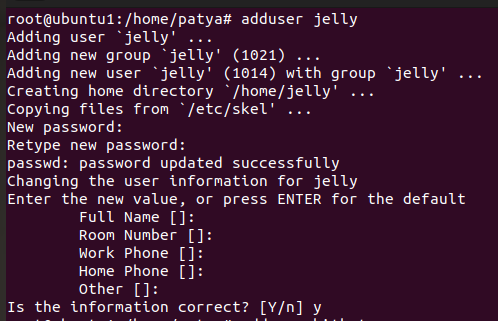
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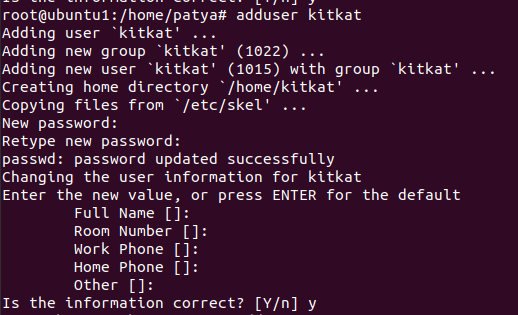
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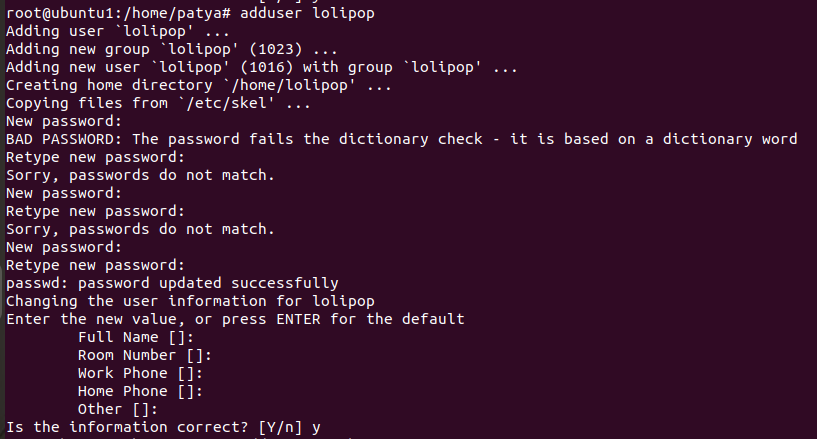
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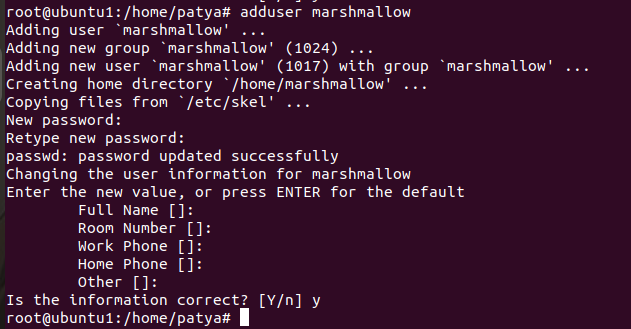
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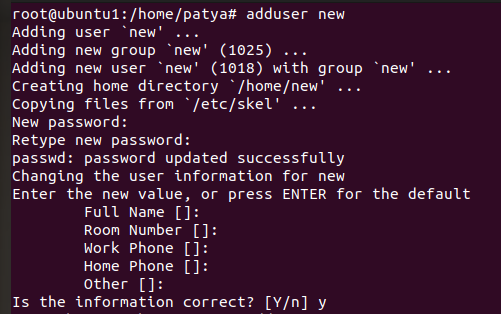
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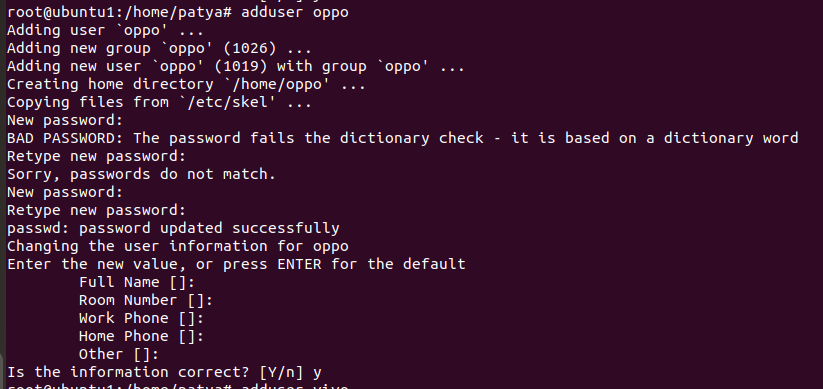
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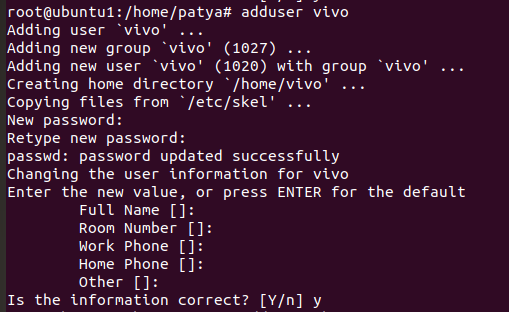
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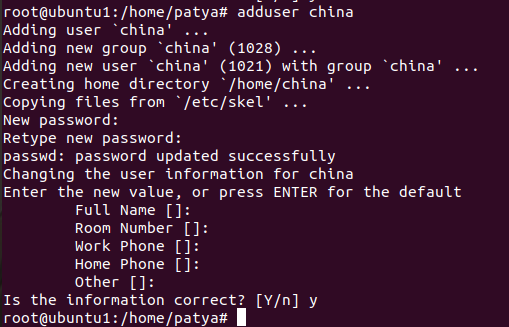
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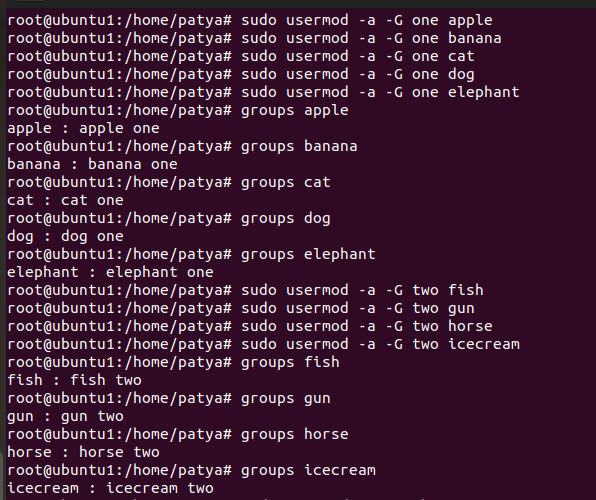
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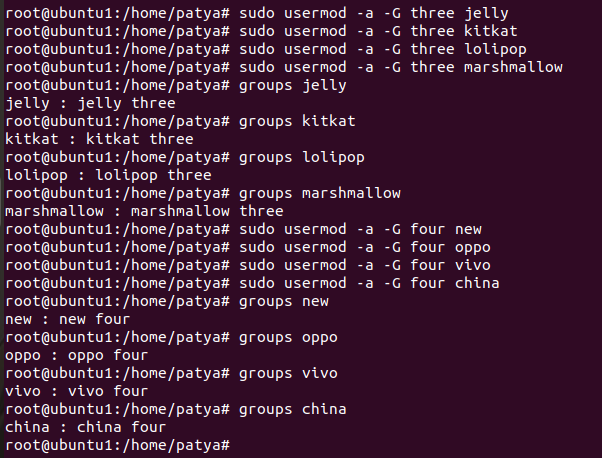
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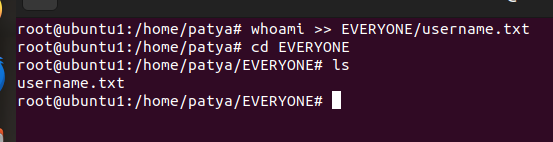
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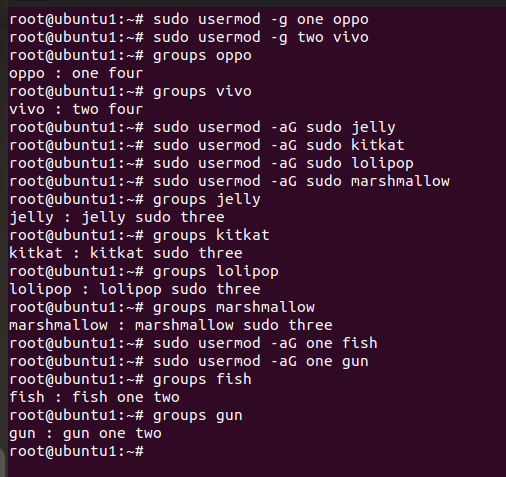
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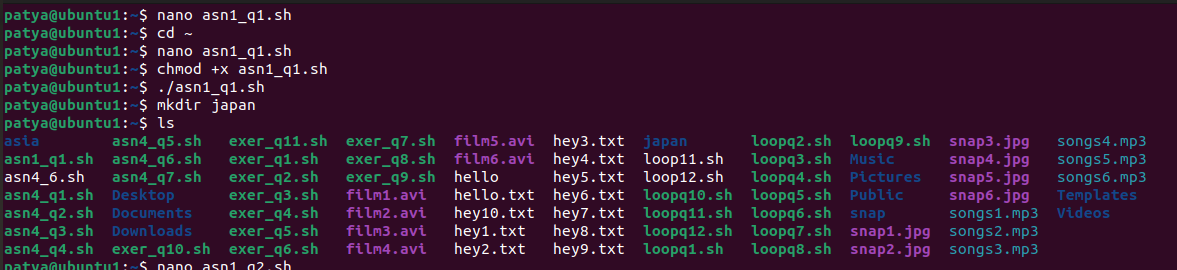
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**ASSIGNMENT : 1 DOCS**

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

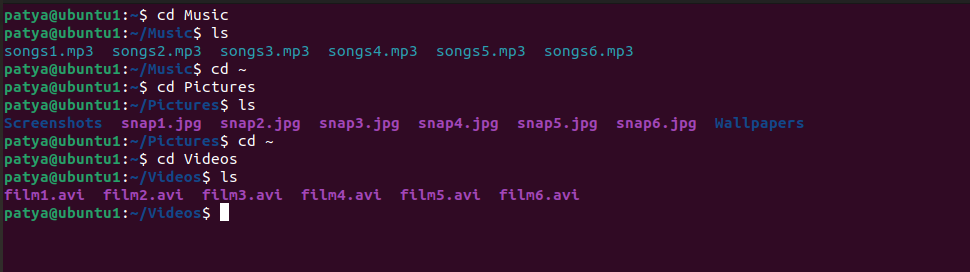
* **Create 6 files with names of the form songsX.mp3.**
* **Create 6 files with names of the form snapX.jpg.**
* **Create 6 files with names of the form filmX.avi.**

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

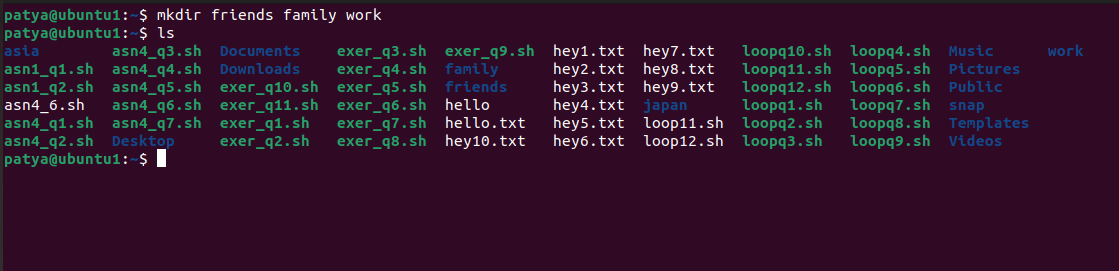
****

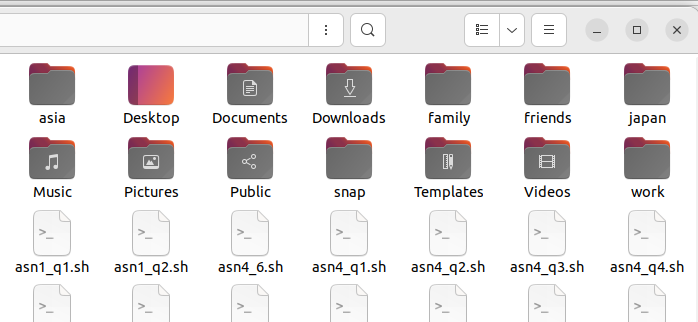
**2. From your home directory,**

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

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

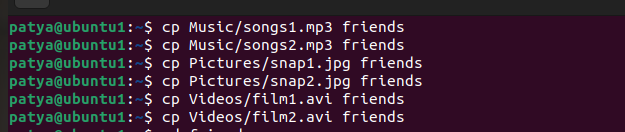
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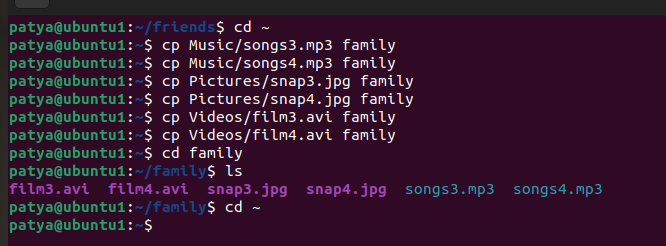
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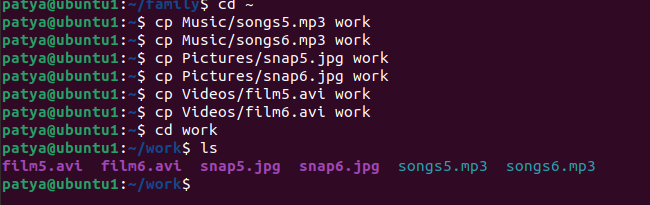
**4. Copy files (all types ) containing numbers 1 and 2 to the friends folder.**

**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.**

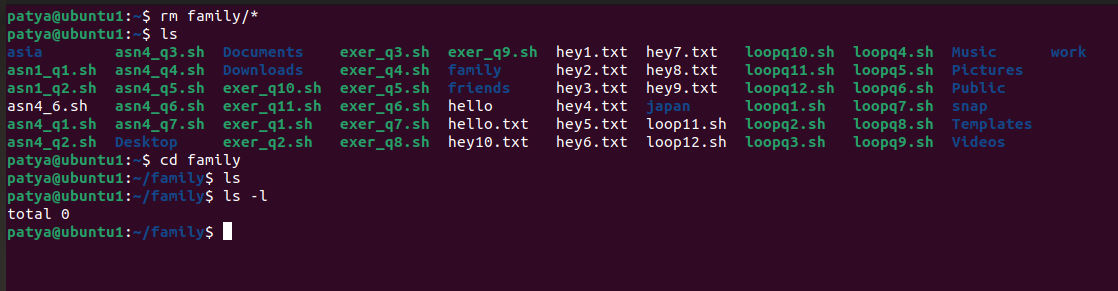
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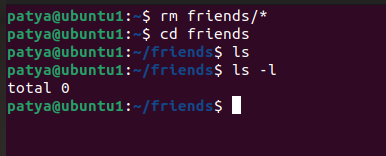
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**ASSIGNMENT : 2**

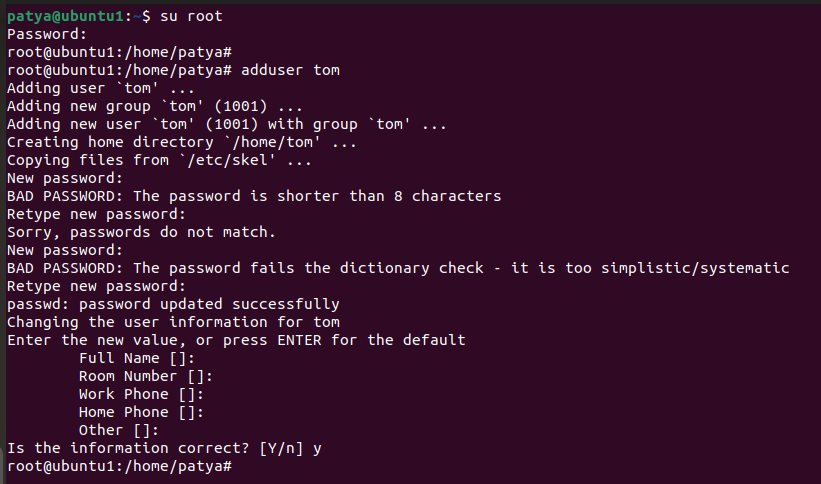
**6. Delete all files in family subdirectory.**

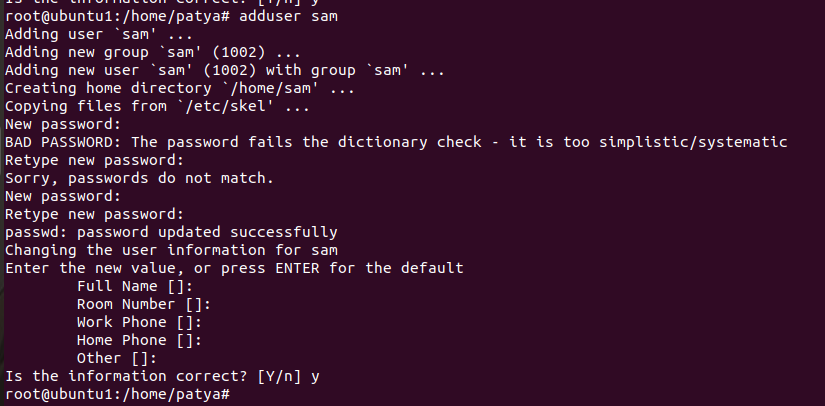
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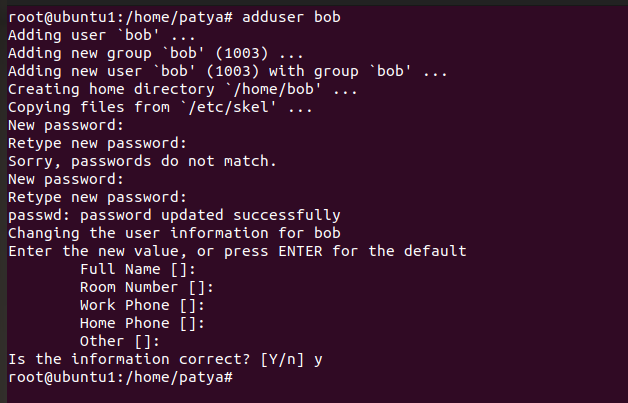
**7. Delete friends subdirectory**

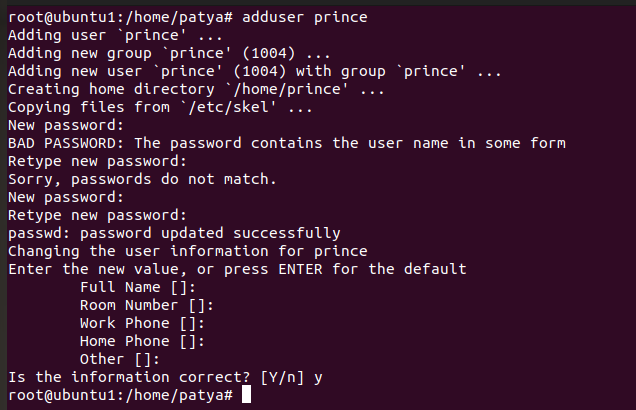
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**8. Create user tom , bob , sam , prince**

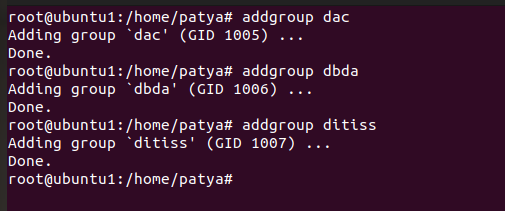
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**9. Create Group dac , dbda ,ditiss**

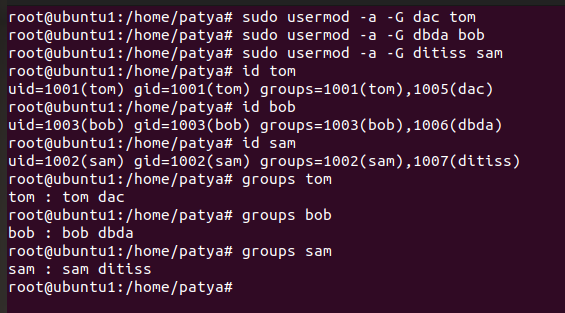
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**10. add user**

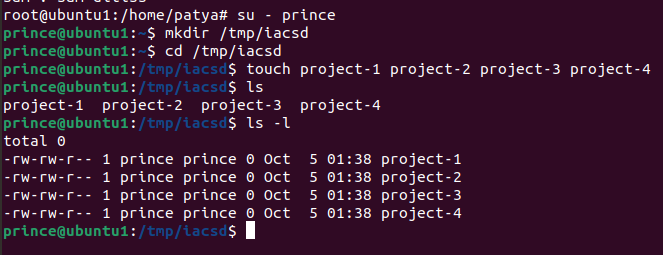
**Tom in dac**

**Bob in dbda**

**Sam in ditiss**

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

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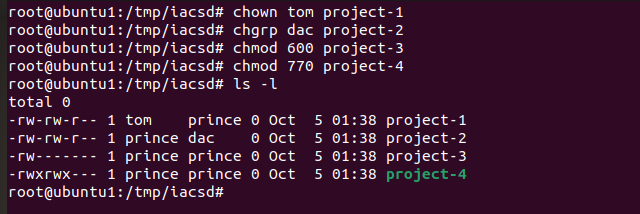
**12. assign permissions to project files as below**

**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**

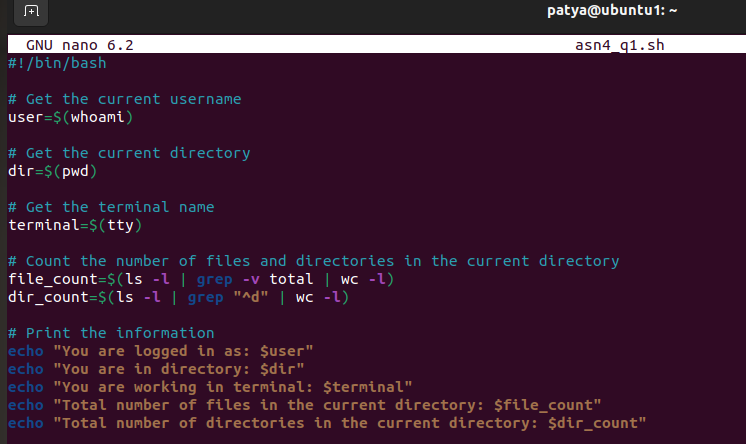
**Project-4 – dbda group should have rwx permissions.**

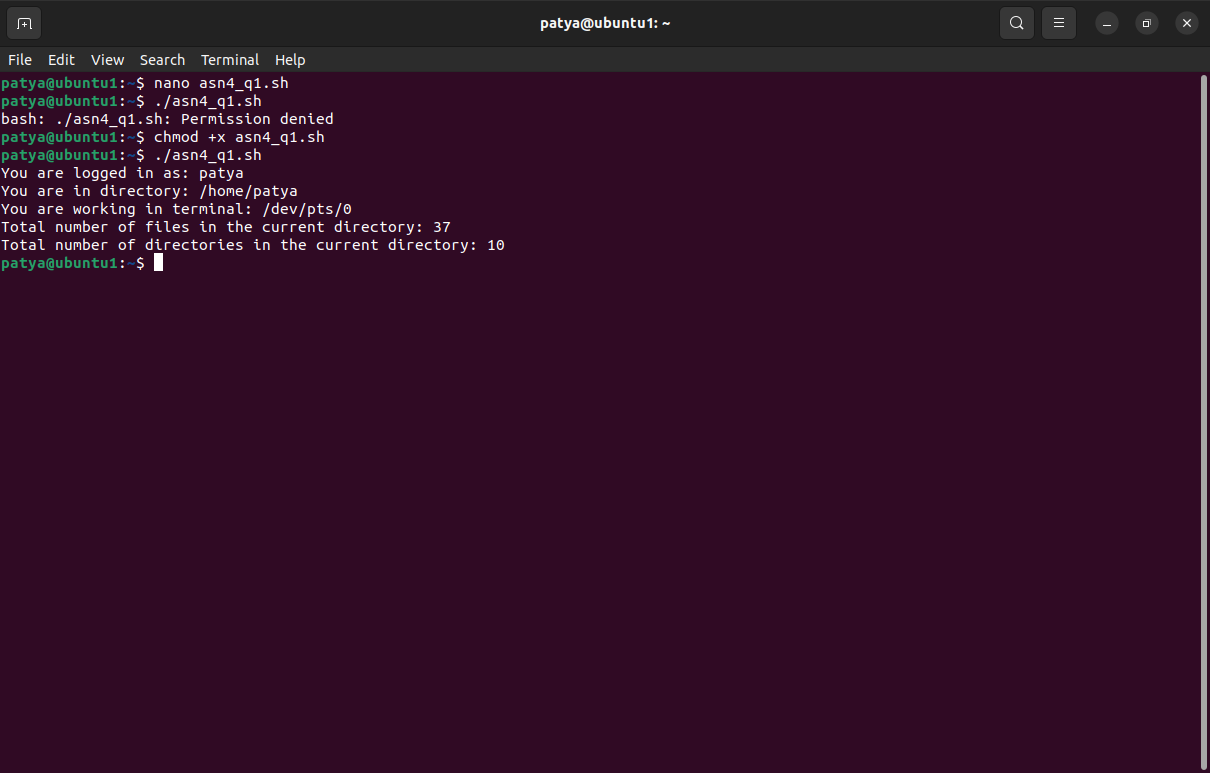
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**ASSIGNMENT : 4**

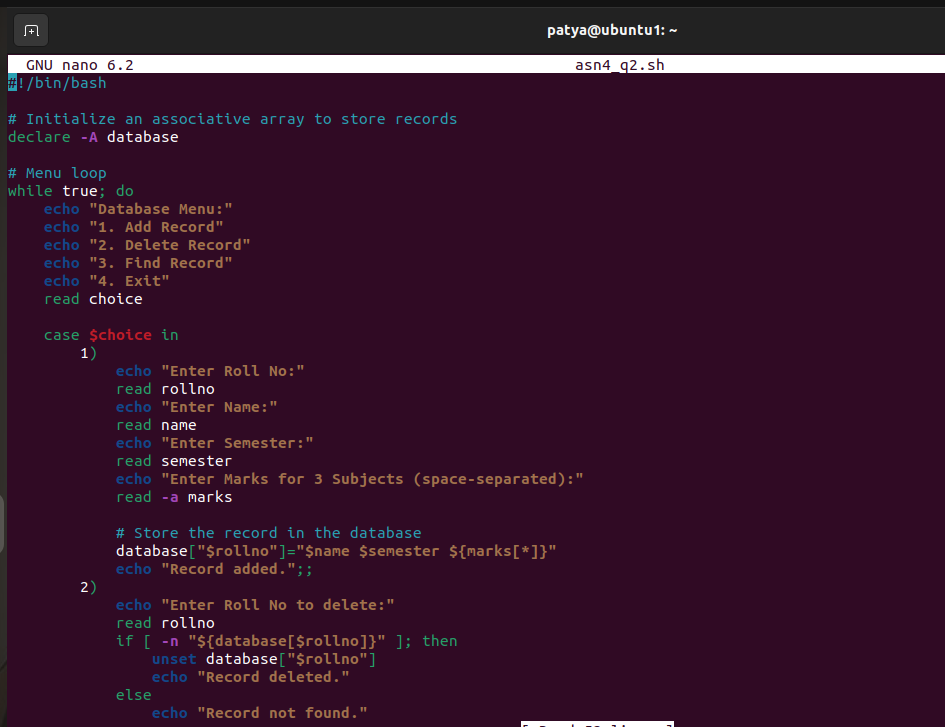
**1) Write a shell script tp print**

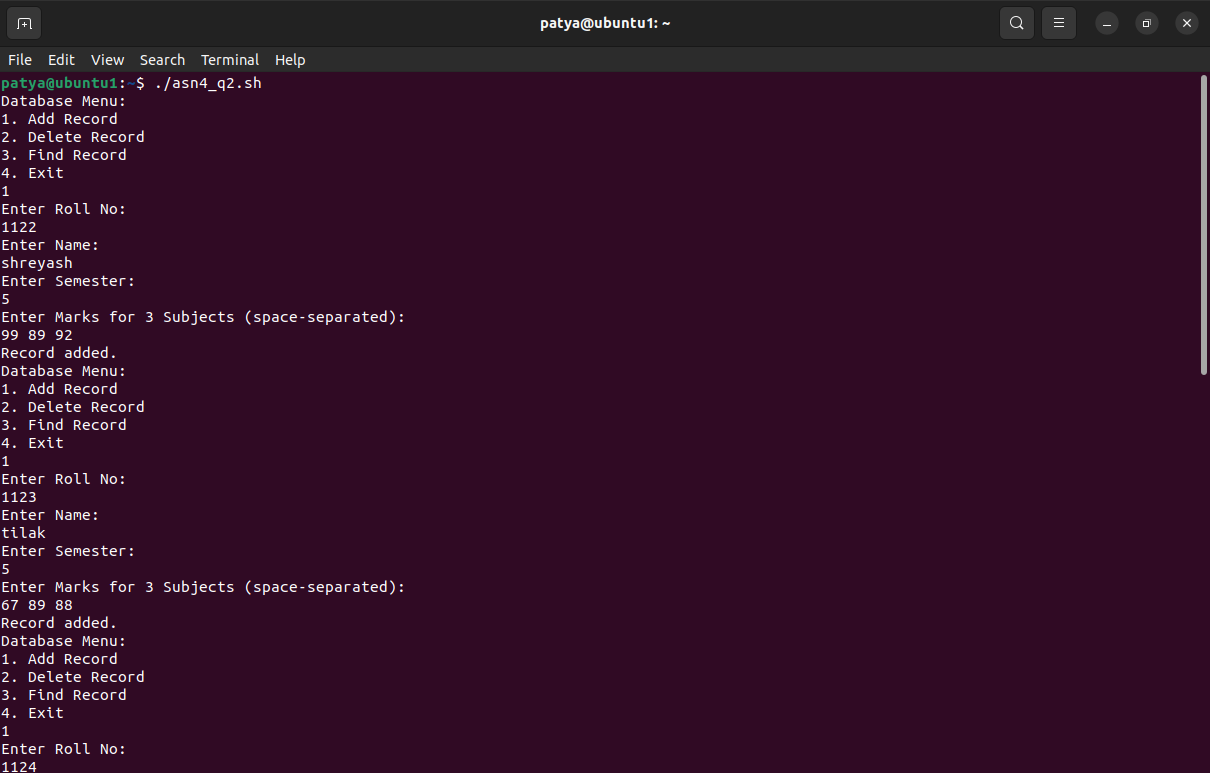
* **your are logged in as which user**
* **in which directory you are**
* **and in which terminal you are working**
* **total number of files and directories in current directory**

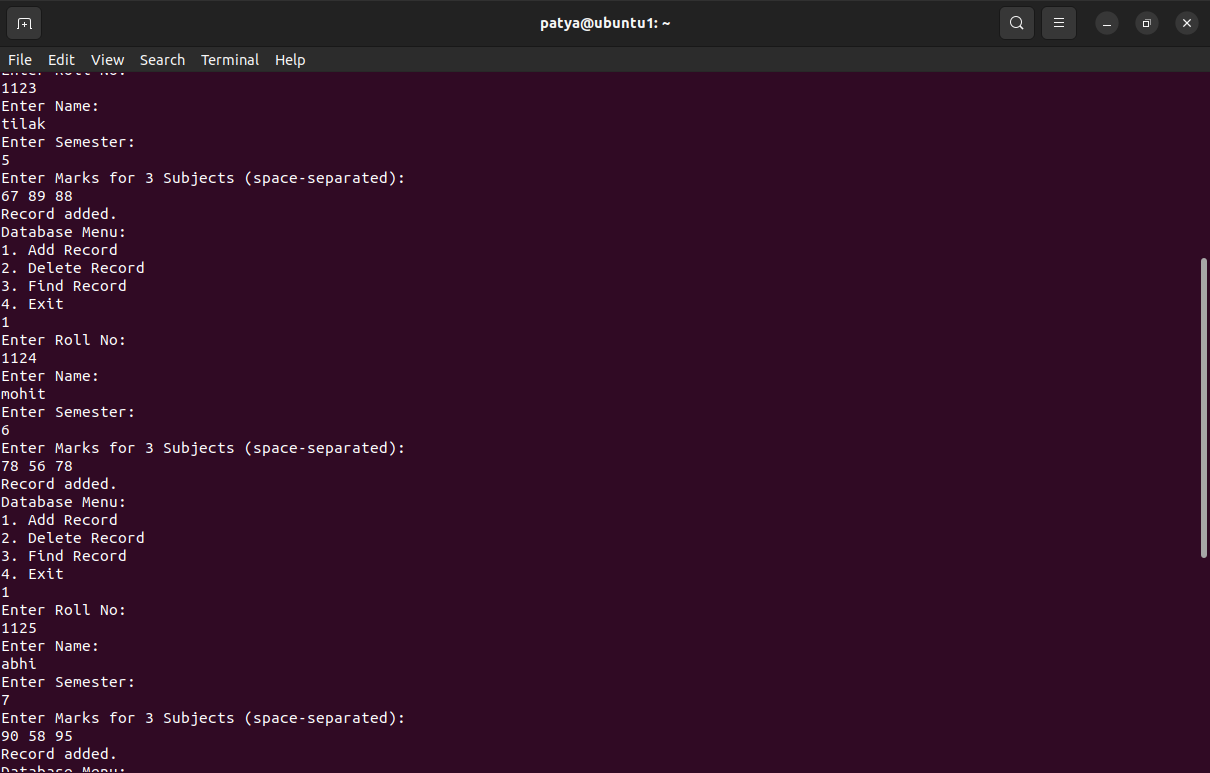
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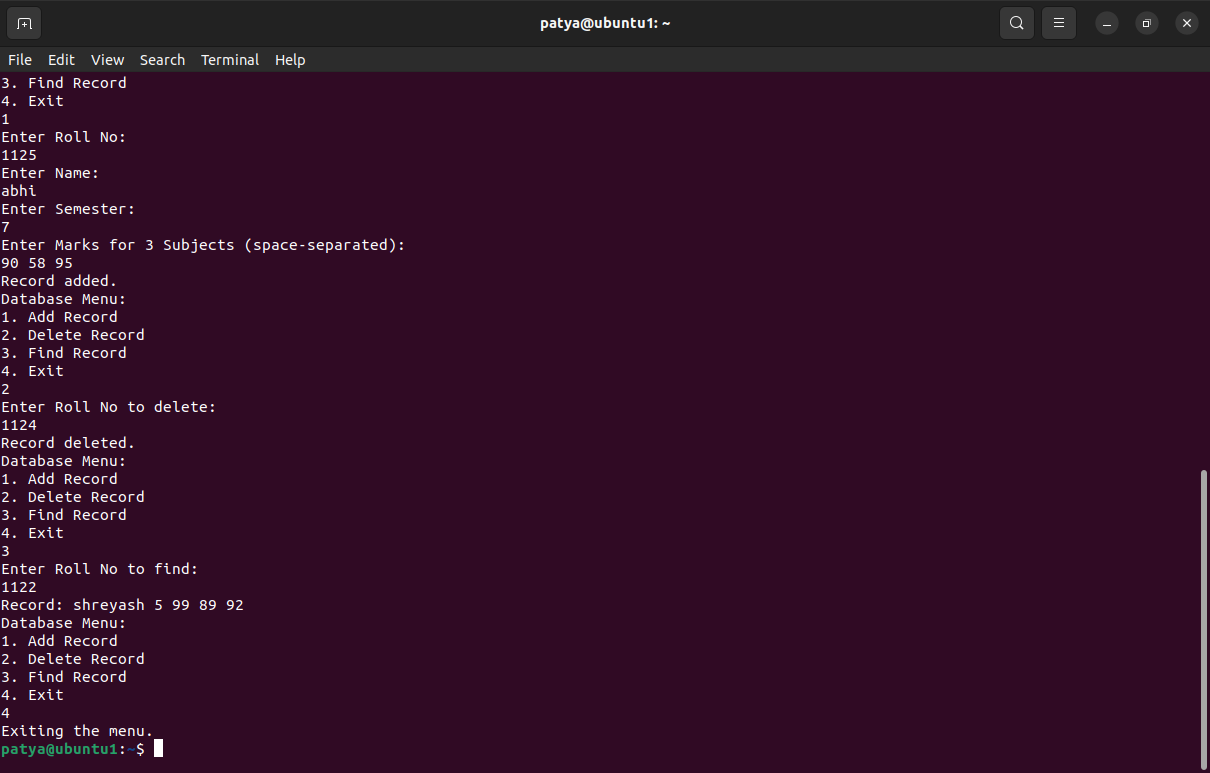
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**2).Write a shell script to create a menu driven program for adding, deletion or finding a record in a database. Database should have the field like rollno, name, semester and marks of three subjects. Last option of the menu should be to exit the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

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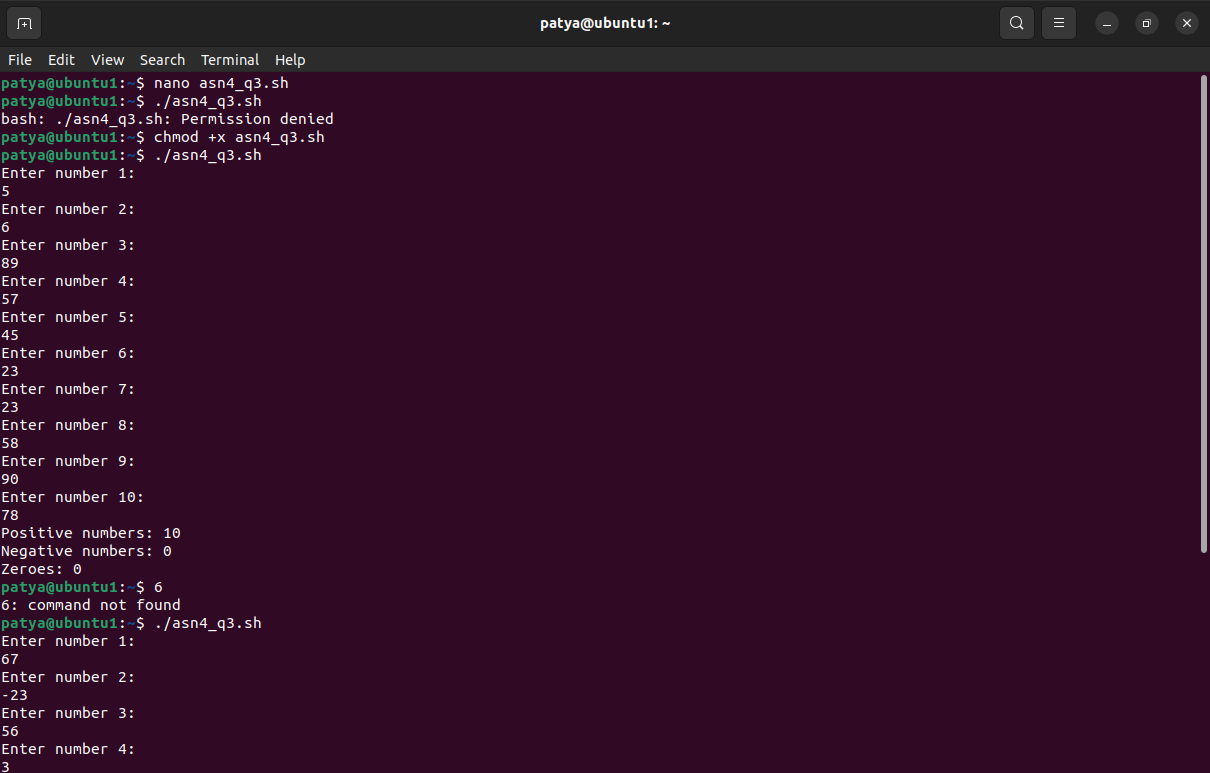
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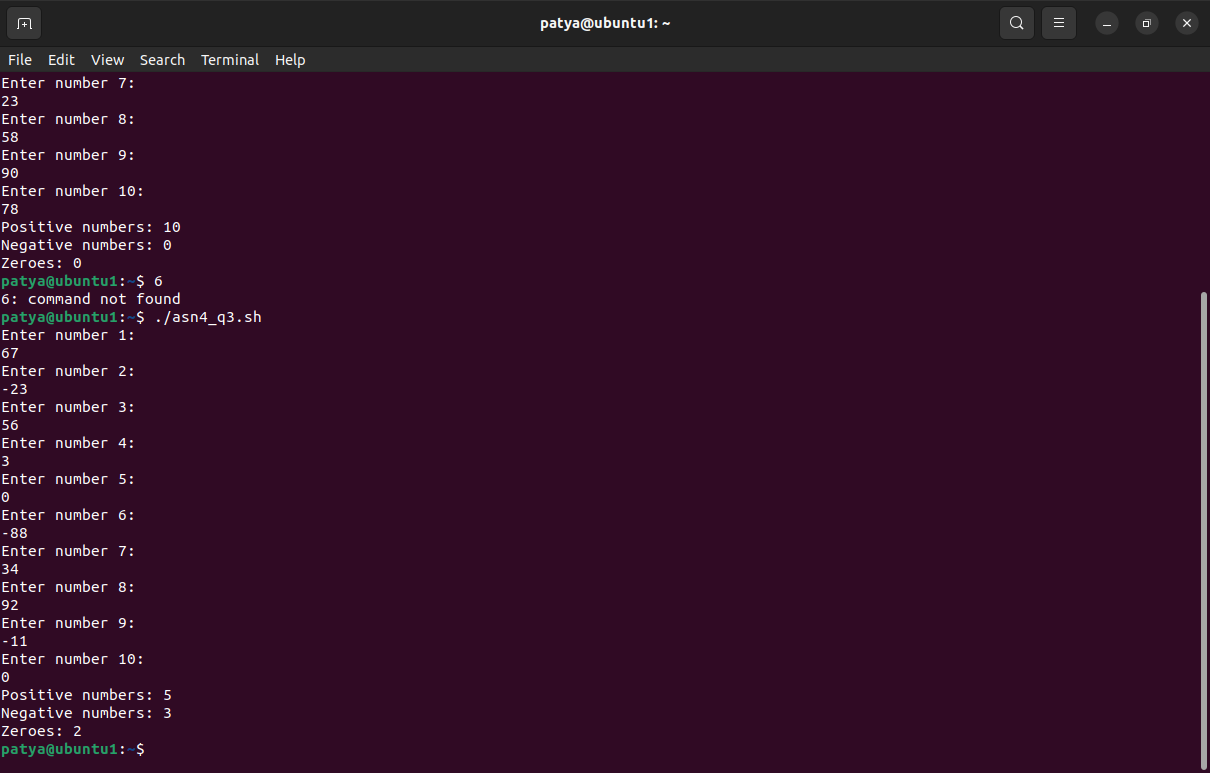
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**3) Write a Linux shell script to accept 10 number and tell how many are +tive, -tive and zero.**

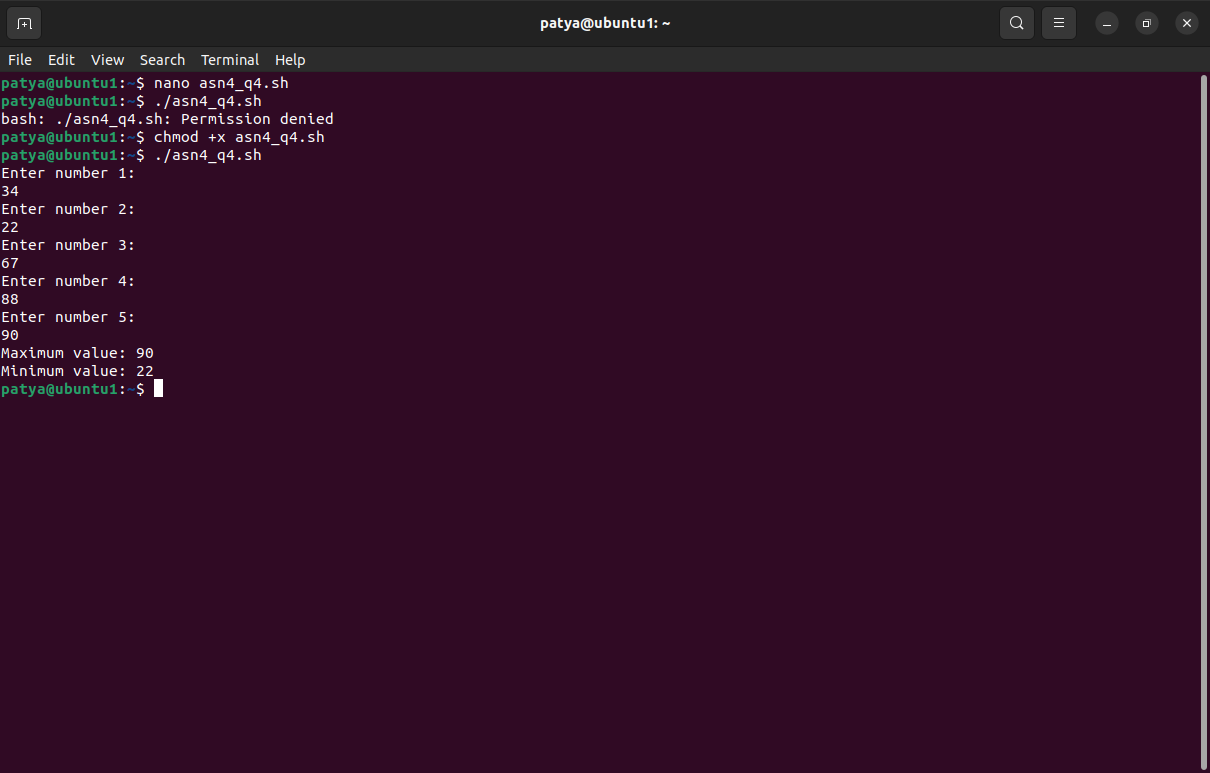
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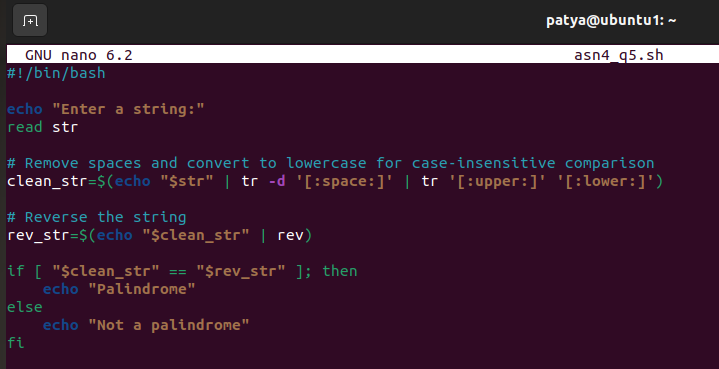
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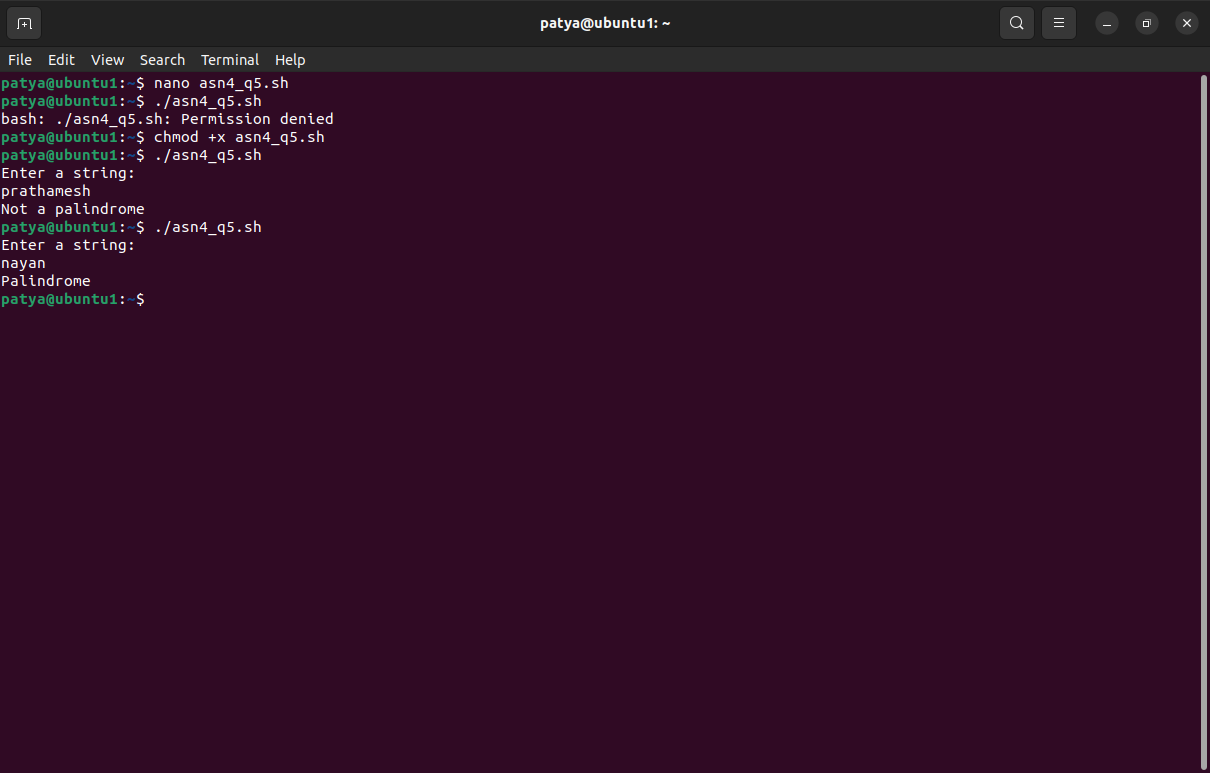
**4) Write a shell script to accept five number and display max and min value.**

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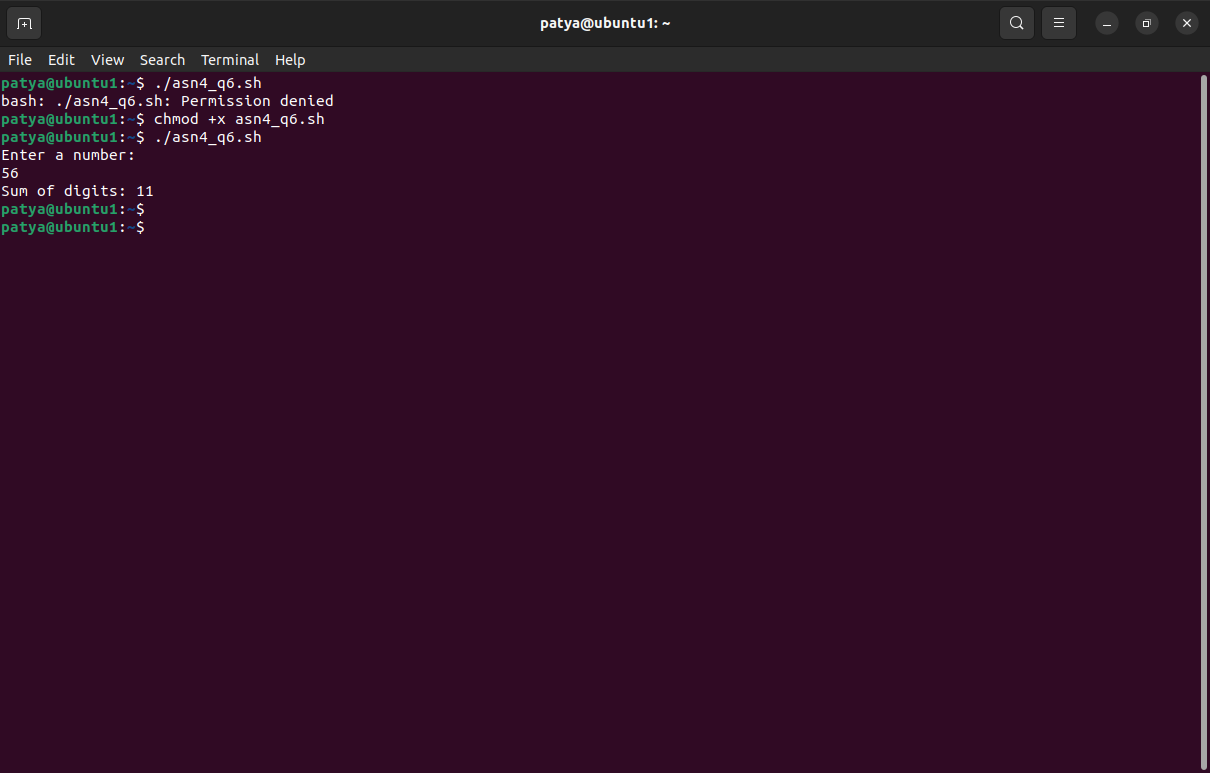
**5) Write a script to find out String is palindrome or not.**

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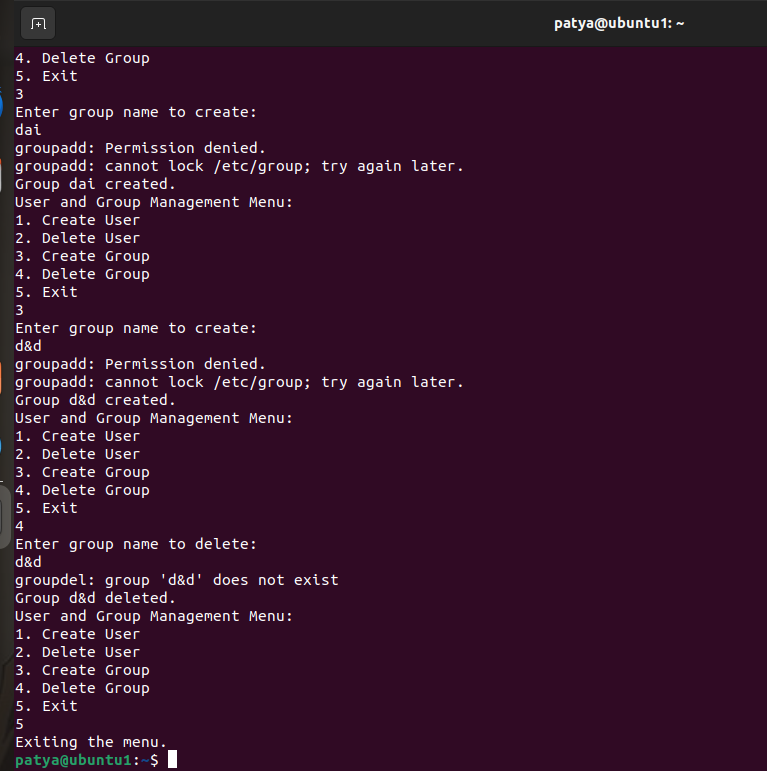
**6) Write a shell script to print given number’s sum of all digits (eg. If number is 123, then it’s sum of all digits will be 1+2+3=6)**

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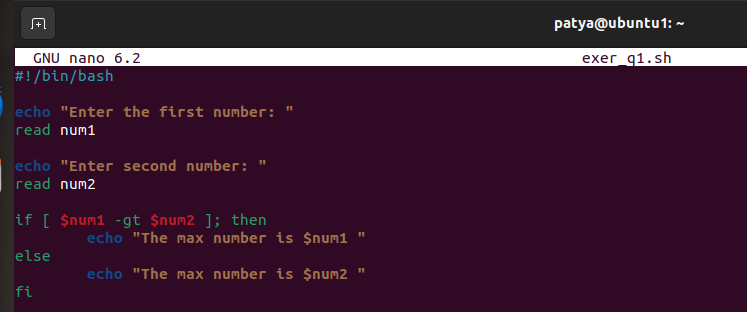
**7) Create a script to**

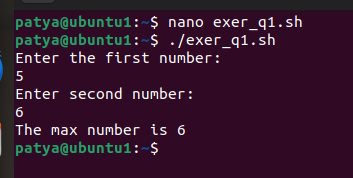
**Create user , Delete user , Create group , delete Group using case**

**n**

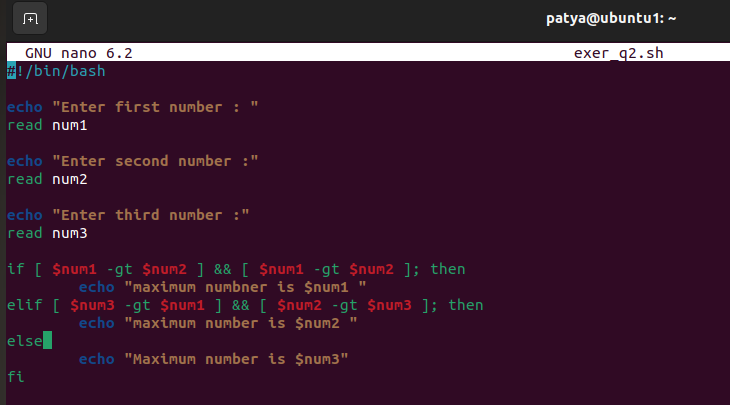
**ASSIGNMENT : EXERCISE**

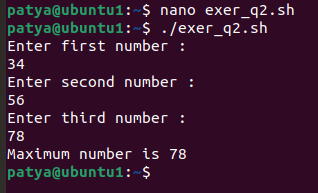
**1. Write a Shell Script to find maximum between two numbers.**

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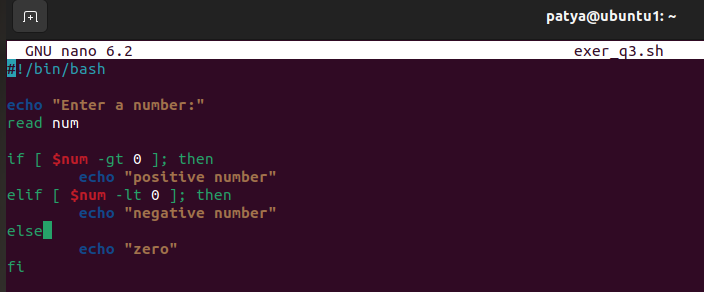
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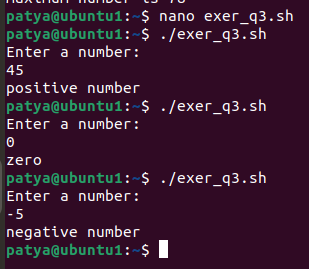
**2. Write a Shell Script to find maximum between three numbers.**

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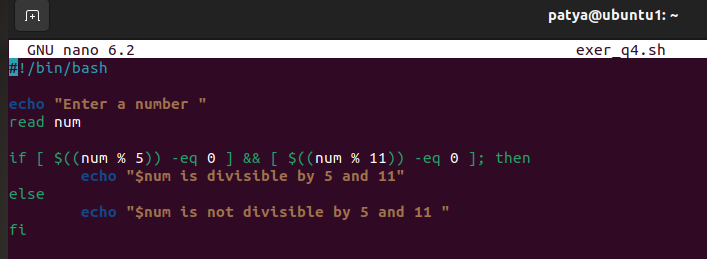
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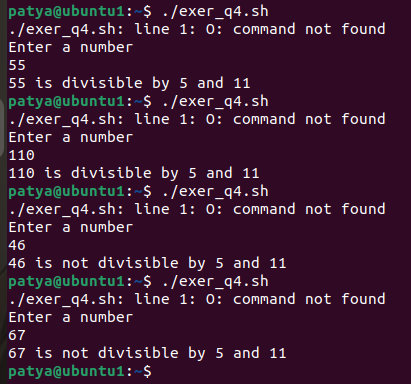
**3. Write a Shell Script to check whether a number is negative, positive or zero.**

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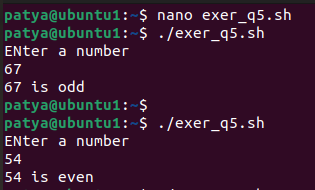
**4. Write a Shell Script to check whether a number is divisible by 5 and 11 or not.**

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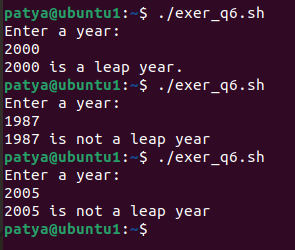
**5. Write a Shell Script to check whether a number is even or odd.**

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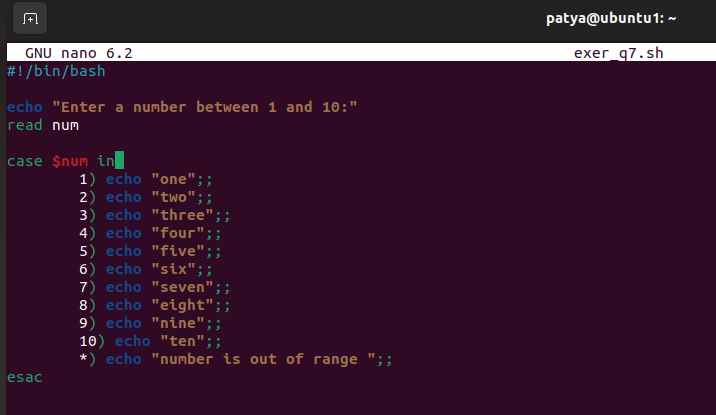
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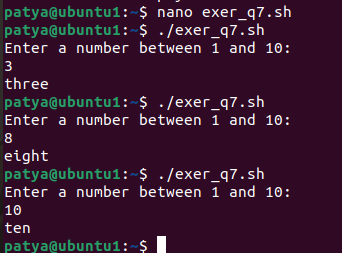
**6. Write a Shell Script to check whether a year is leap year or not.**

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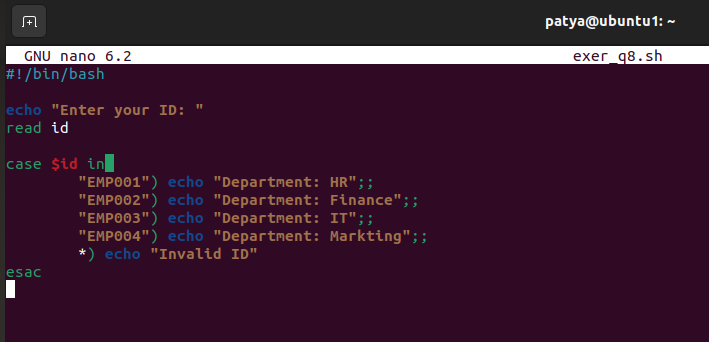
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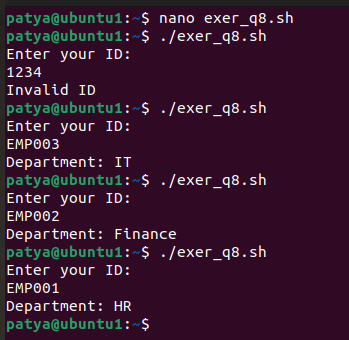
**7. Shell Script to print number between 1 to 10 in character format using switch-case.**

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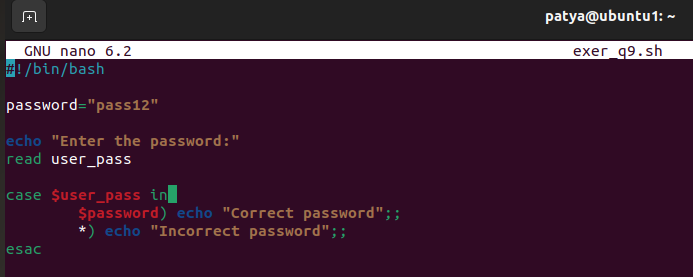
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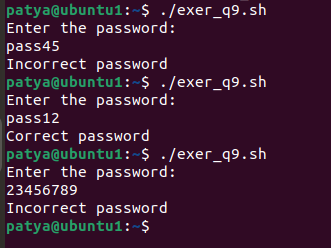
**8. Shell Script to accept id from user to confirm department using switch-case.**

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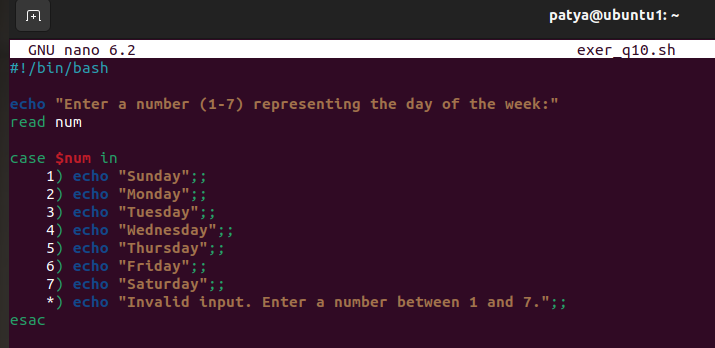
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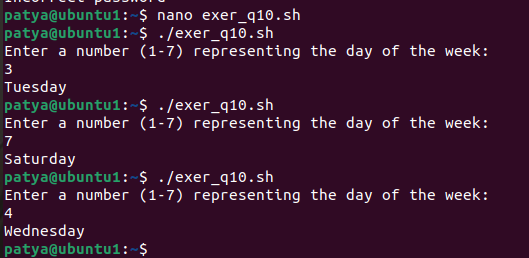
**9. Shell Script to check password is correct or incorrect using switch-case.**

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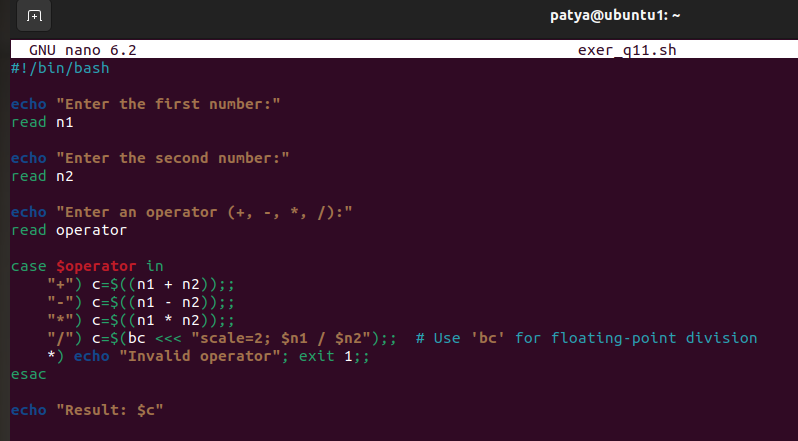
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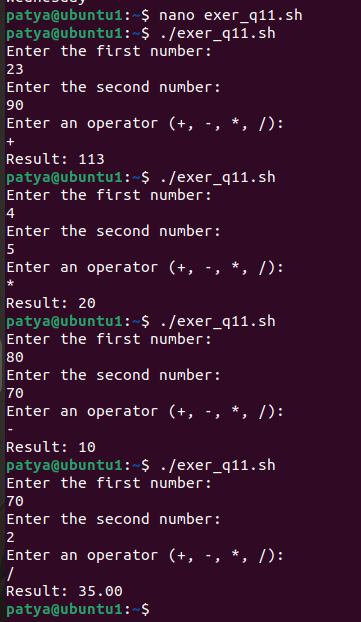
**10. Shell Script to print day of week using switch-case.**

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

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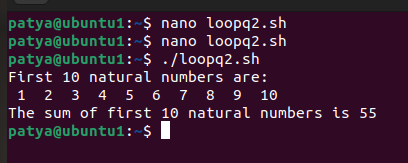
**ASSIGNMENT : LOOP**

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

**Expected Output :**

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

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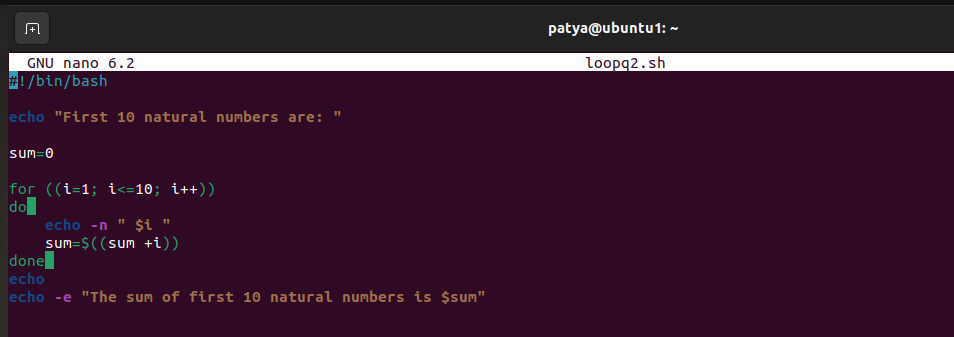
**2. Shell Script to compute the sum of the first 10 natural numbers.**

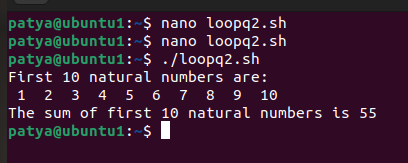
**Expected Output :**

**The first 10 natural number is :**

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

**The Sum is : 55**

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

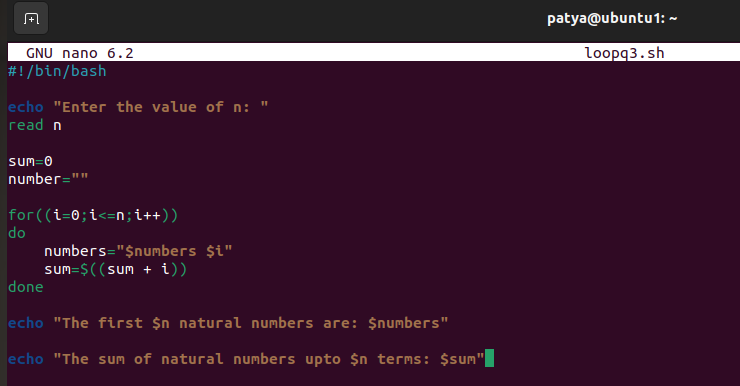
**Test Data : 7**

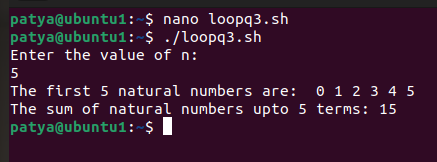
**Expected Output :**

**The first 7 natural number is :**

**1 2 3 4 5 6 7**

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

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**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**

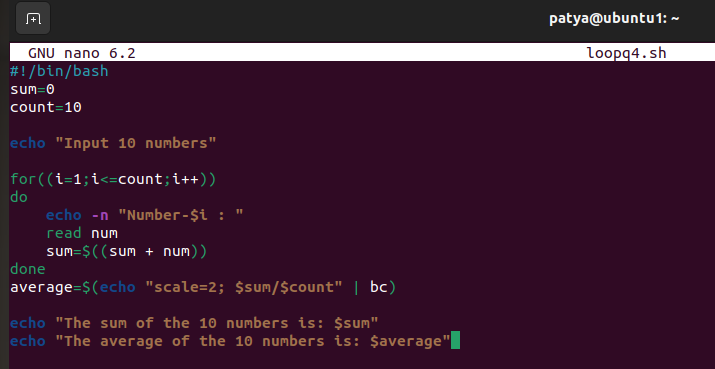
**...**

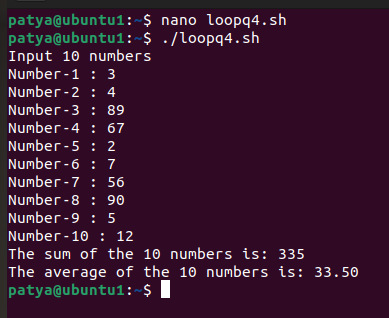
**Number-10 :2**

**Expected Output :**

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

**The Average is : 5.500000**

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

**Test Data :**

**Input number of terms : 5**

**Expected Output :**

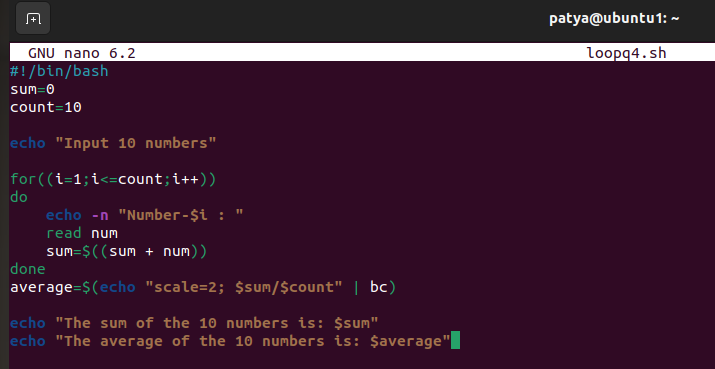
**Number is : 1 and cube of the 1 is :1**

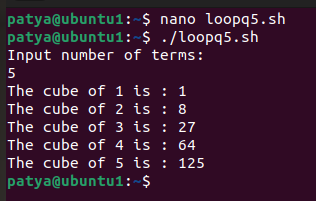
**Number is : 2 and cube of the 2 is :8**

**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**

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

**Test Data :**

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

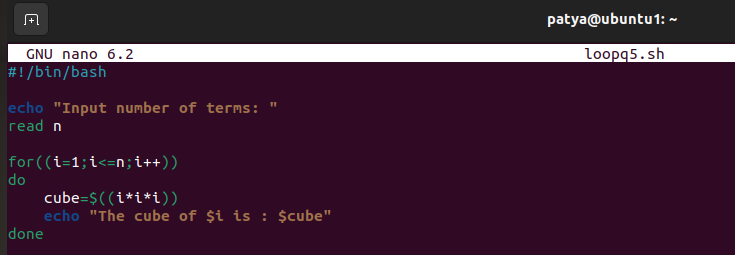
**Expected Output :**

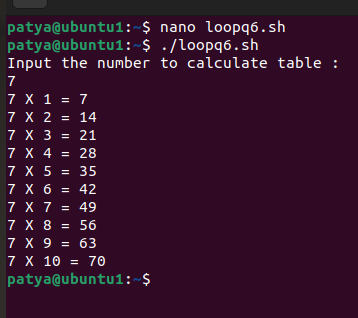
**15 X 1 = 15**

**...**

**...**

**15 X 10 = 150**

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

**Test Data :**

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

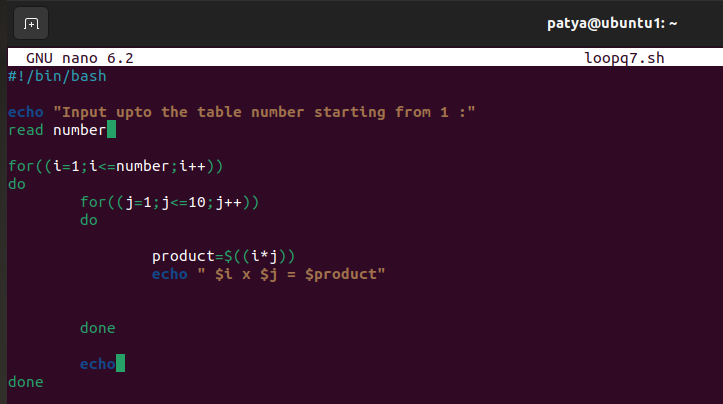
**Expected Output :**

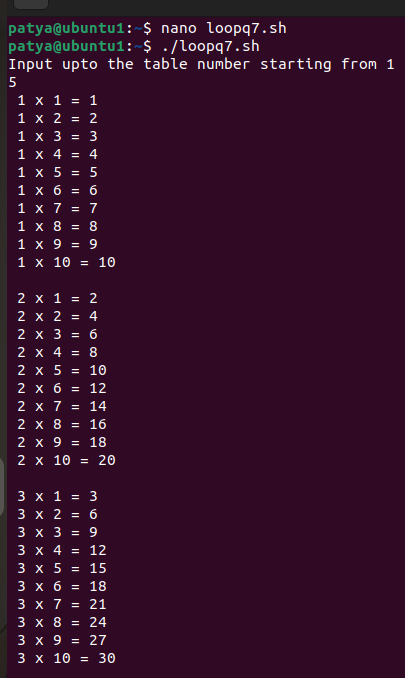
**Multiplication table from 1 to 8**

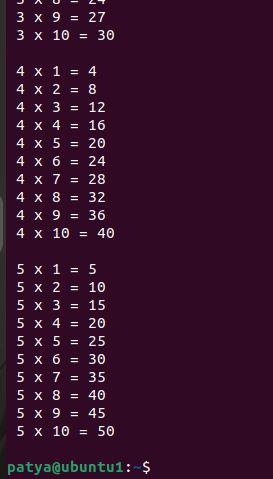
**1x1 = 1, 2x1 = 2, 3x1 = 3, 4x1 = 4, 5x1 = 5, 6x1 = 6, 7x1 = 7, 8x1 = 8**

**...**

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

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

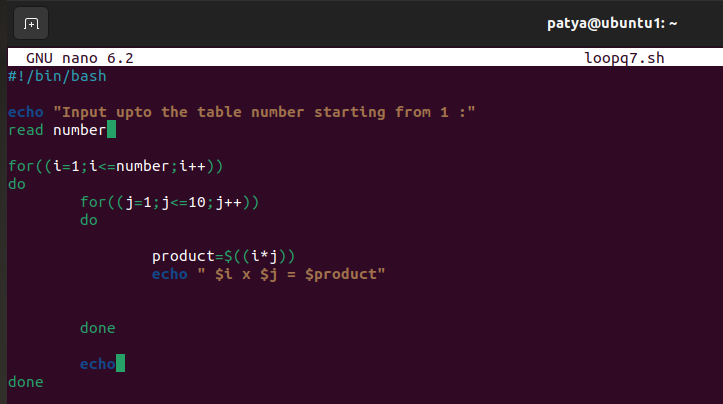
**Test Data**

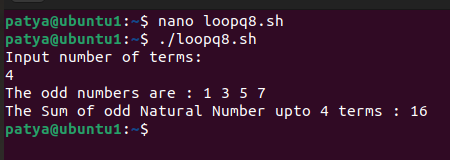
**Input number of terms : 10**

**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**

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

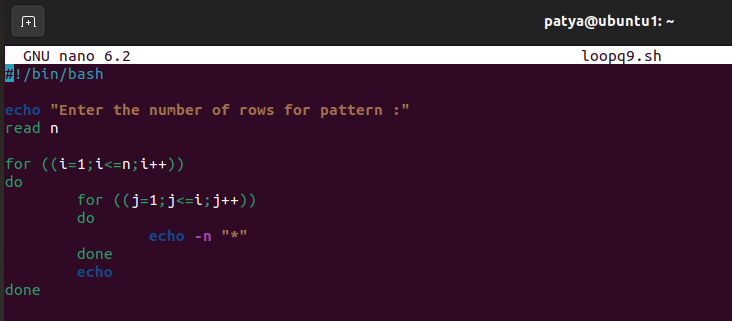
**The pattern like :**

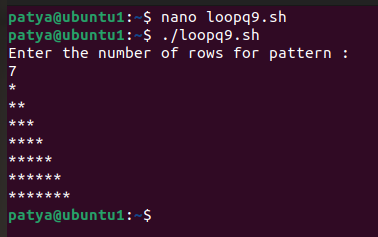
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**10. Shell Script to display a pattern like a right angle triangle with a number.**

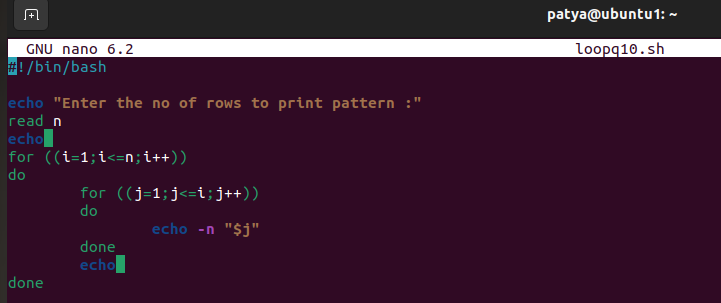
**The pattern like :**

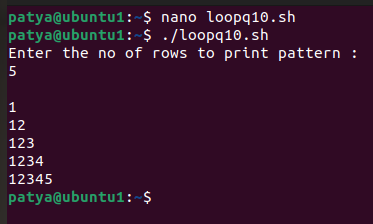
**1**

**12**

**123**

**1234**

****

****

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

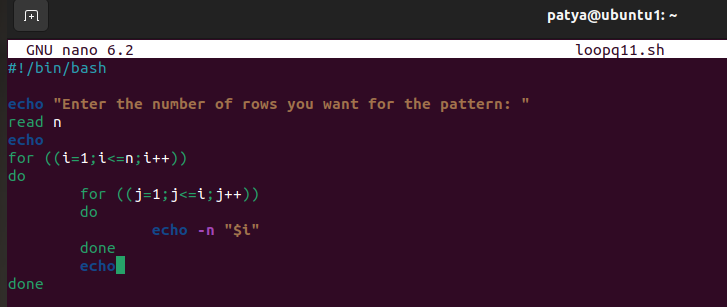
**The pattern like :**

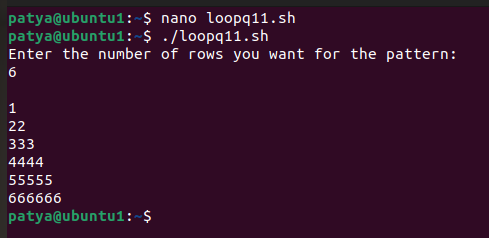
**1**

**22**

**333**

**4444**

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

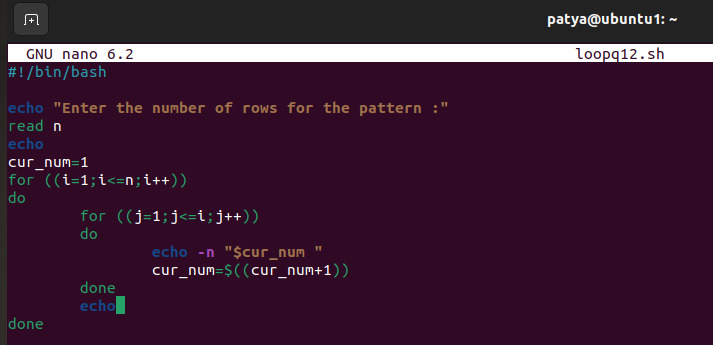
**The pattern like :**

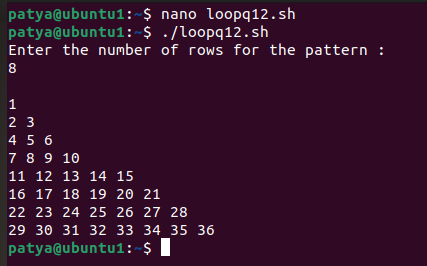
**1**

**2 3**

**4 5 6**

**7 8 9 10**

****

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#!/bin/bash

# Function to display the menu

show\_menu() {

echo "1. List files"

echo "2. Create a file"

echo "3. Delete a file"

echo "4. Exit"

}

# Function to list files

list\_files() {

ls -l

}

# Function to create a file

create\_file() {

echo -n "Enter file name: "

read file\_name

touch $file\_name

echo "File created successfully!"

}

# Function to delete a file

delete\_file() {

echo -n "Enter file name to delete: "

read file\_name

rm -i $file\_name

echo "File deleted successfully!"

}

# Menu loop

while true

do

show\_menu

echo -n "Enter your choice: "

read choice

case $choice in

1) list\_files ;;

2) create\_file ;;

3) delete\_file ;;

4) exit ;;

\*) echo "Invalid choice. Please try again." ;;

esac

echo

done