



#### Experiment No. 2.3

Write programs using Control structures in shell programming, Difference between while and until statement, Looping statement.

Student Name: Neha Sharma UID: 20BCS4576

Branch: 2010T1 Section/Group: A

Semester: 3rd Date of Performance:15/11/21

Subject Name: OPERATING SYSTEM LAB Subject Code: 210-20CSP-232\_20BIT-1\_A

# 1. Aim/Overview of the practical:

Write programs using

- a. Control structures in shell programming.
- b. Difference between while and until statement.
- c. Looping statement

#### 2. Task to be done:

Understand and execute basic commands of shell script.

## 3. Apparatus:

- Laptop/PC
- Good internet connection
- C language IDE
- UNIX system







## **4. CODE:**

1. Write a Program to check whether a number is an Amstrong Number or Not

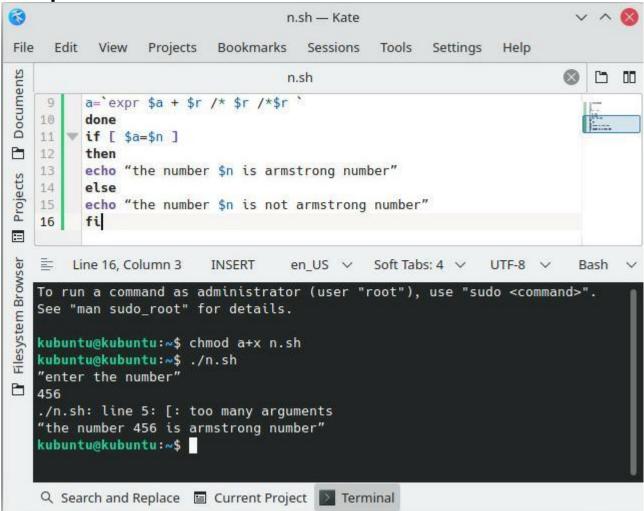
#### **Program code-**

```
echo "enter the
number"read n
q=$n
a=0
while [ $q - gt 0
]do
r= `expr $q % 10
`q= `expr $q / 10
a='expr $a + $r /* $r /*$r
`done
if [ $a=$n
1then
echo "the number $n is armstrong number"
else
echo "the number $n is not armstrong
number"fi
```





#### **Output-**



#### 2. Write a Program to Check a Number is a Special Number or not.

### **Program code-**

```
# !/bin/bash
echo "Enter a number"
read no
i=1
ans=0
for i in 1 2 3 4 5 ...
nodo
```







if [[ \$((no%i)) -eq 0
]]then
 ans=\$((ans + i))



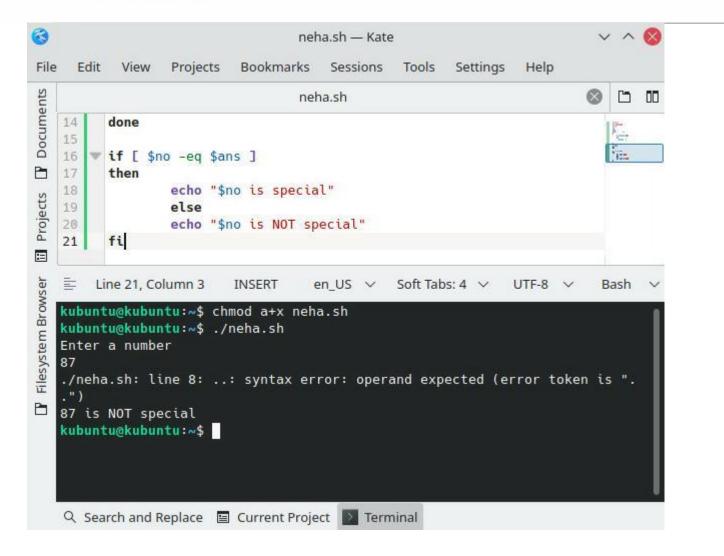




**Output-**













# **5.Result:** Commands working successfully

#### **Learning outcomes (What I have learnt):**

- 1. Learn how to use different Linux commands like chmod ,echo, read command
- 2. Understood and execute basic commands of shell script
- ${\bf 3. \ Applied \ the \ basic \ operations \ in \ shell \ script \ which \ are \ required \ for \ different}$

applications.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

