```
  GNU nano 6.2                              array2.sh
#!/bin/bash


arr=(tiger lion cat dog)


echo ${arr[@]}
echo ${arr[0]}
echo ${arr[1]}
echo ${arr[2]}
echo ${arr[@]//t/A}
echo ${#arr[@]}
```

[Read 13 lines]

^G Help   ^O Write Out   ^W Where Is   ^K Cut   ^T Execute   ^C Location   M-U Undo   M-A Set Mark   M-] To Bracket
^X Exit   ^R Read File   ^\ Replace   ^U Paste   ^J Justify   ^/ Go To Line M-E Redo   M-6 Copy   ^Q Where Was

```
tiger
shruti@LINUX:~$ nano array2.sh
shruti@LINUX:~$ chmod +x array2.sh
shruti@LINUX:~$ ./array2.sh
tiger lion cat dog
tiger
lion
cat
Aiger lion caA dog
4
shruti@LINUX:~$
```

```
GNU nano 6.2                                    Array.sh *
#!/bin/bash


arr= (tiger lion elephant  peacock )

echo ${ arr [@] }
echo ${ arr [0] }
```

```
shruti@LINUX:~$ nano cases.sh
shruti@LINUX:~$ chmod +x cases.sh
shruti@LINUX:~$ ./cases.sh
Enter the  name of the state :
Maha
Capital is Mumbai
shruti@LINUX:~$ nano cases.sh
shruti@LINUX:~$
shruti@LINUX:~$
```

shruti@LINUX: ~

```
  GNU nano 6.2                                      cases.sh
#!/bin/bash

echo "Enter the  name of the state :"

read state

case $state  in

  "UP")
      echo "Capital is Lucknow"
    ;;

  "Maha")
        echo "Capital is Mumbai"
    ;;
  "Punjab")
        echo "Capital is Chandigarh"
    ;;
    *)
     echo "unknown state"
    ;;


esac
```

[Read 33 lines]

```
shruti@LINUX:~$ nano function2.sh
shruti@LINUX:~$ ./function2.sh
 Javapoint  tutorials LInux
 Javapoint  tutorials Java
 Javapoint  tutorials Sql
shruti@LINUX:~$
```

```
  GNU nano 6.2                               function2.sh *
#!/bin/bash

function  Welcome  ()  {

echo " Javapoint  tutorials $1"
}

#calling function

welcome LInux
welcome Java
welcome Sql
```

```
shruti@LINUX:~$ nano function1.sh
shruti@LINUX:~$ nano function1.sh
shruti@LINUX:~$ chmod +x function1.sh
shruti@LINUX:~$ ./function1.sh
Welcome To Shell Scripting
shruti@LINUX:~$
```

```
  GNU nano 6.2                          function1.sh *
#!/bin/bash

functiom Welcome () {

    echo   "Welcome To Shell Scripting"
}

Welcome
```

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location	M-U Undo	M-A Set Mark	M-] To Bracket
^X Exit	^R Read File	^\ Replace	^U Paste	^J Justify	^/ Go To Line	M-E Redo	M-6 Copy	^Q Where Was

```
shruti@LINUX:~$ nano untilloop.sh
shruti@LINUX:~$ chmod untilloop.sh
chmod: missing operand after 'untilloop.sh'
Try 'chmod --help' for more information.
shruti@LINUX:~$ chmod +x untilloop.sh
shruti@LINUX:~$ ./ untilloop.sh
bash: ./: Is a directory
shruti@LINUX:~$ ./untilloop.sh
number is 5
number is 6
number is 7
number is 8
number is 9
number is 10
number is 11
number is 12
number is 13
number is 14
number is 15
shruti@LINUX:~$
```

```
  GNU nano 6.2                              untilloop.sh *
#!/bin/bash

i=5
until [ $i  -gt  15 ];
do

 echo "number is $i"
 i=$(( i+1 ))

done
```

```
^G Help       ^O Write Out   ^W Where Is   ^K Cut      ^T Execute   ^C Location   M-U Undo   M-A Set Mark   M-] To Bracket
^X Exit       ^R Read File    ^\ Replace   ^U Paste    ^J Justify   ^/ Go To Line M-E Redo   M-6 Copy       ^Q Where Was
```

shruti@LINUX: ~

```
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
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his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite loop .
his is infinite^C
shruti@LINUX:~$
```

shruti@LINUX: ~

```
  GNU nano 6.2                          infiniteloop.sh *
#!/bin/bash

while true

do

echo "his is infinite loop ."

done
```

^G Help   ^O Write Out   ^W Where Is   ^K Cut   ^T Execute   ^C Location   M-U Undo   M-A Set Mark   M-] To Bracket
^X Exit   ^R Read File   ^\ Replace   ^U Paste   ^J Justify   ^/ Go To Line M-E Redo   M-6 Copy   ^Q Where Was

```
shruti@LINUX:~$ nano whileloop.sh
shruti@LINUX:~$ chmod +x whileloop.sh
shruti@LINUX:~$ ./whileloop.sh
Reverse order number is 10
Reverse order number is 9
Reverse order number is 8
Reverse order number is 7
Reverse order number is 6
Reverse order number is 5
Reverse order number is 4
Reverse order number is 3
Reverse order number is 2
Reverse order number is 1
Reverse order number is 0
shruti@LINUX:~$
```

shruti@LINUX: ~

```
  GNU nano 6.2                          whileloop.sh *
#!/bin/bash

i=10;
while [ $i  -ge  0 ];

do

 echo "Reverse order number $i"
 let i--;

done
```
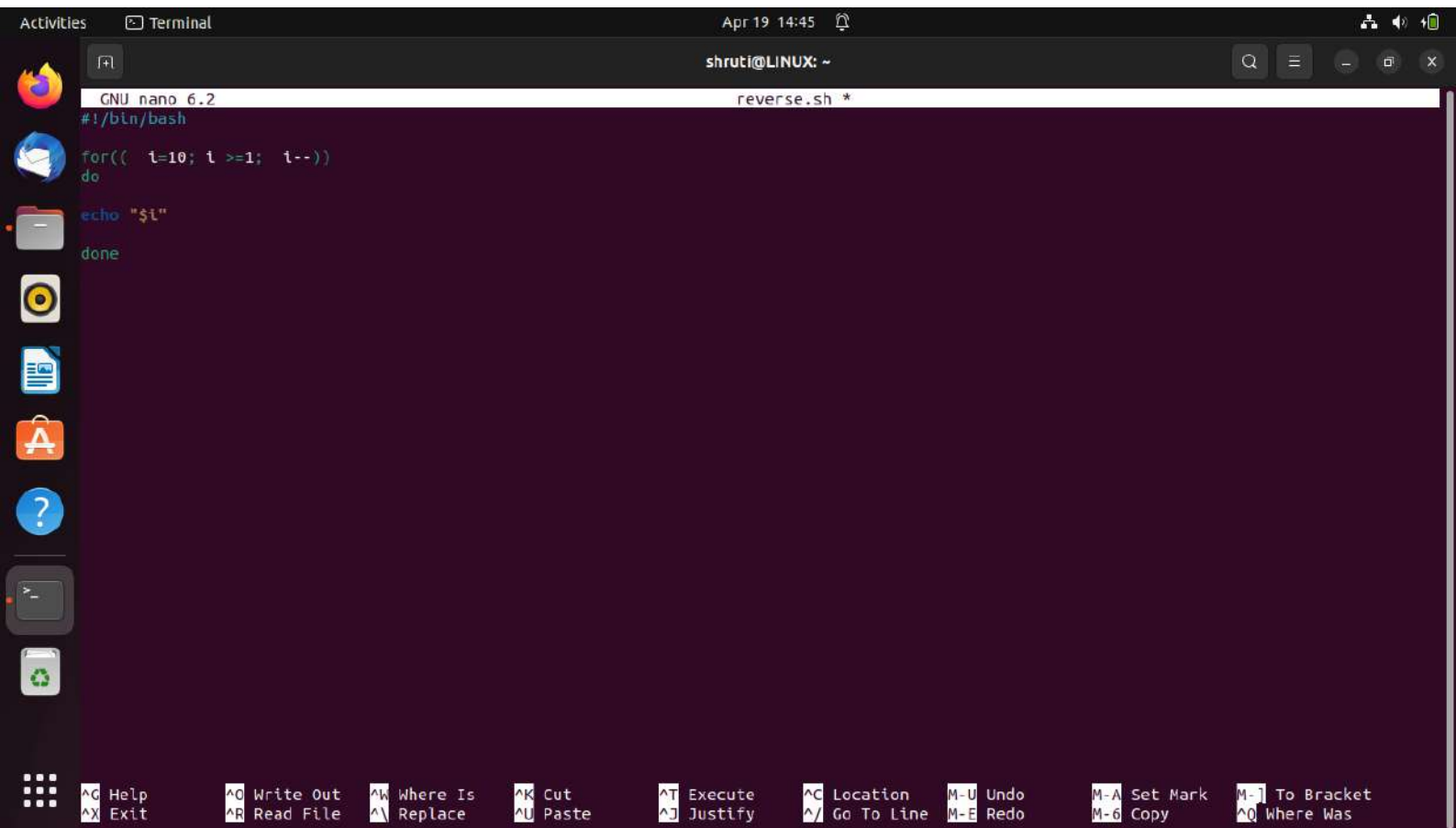
```
File Name to Write: whileloop.sh
^G Help              M-D DOS Format      M-A Append          M-B Backup File
^C Cancel            M-M Mac Format      M-P Prepend         ^T Browse
```
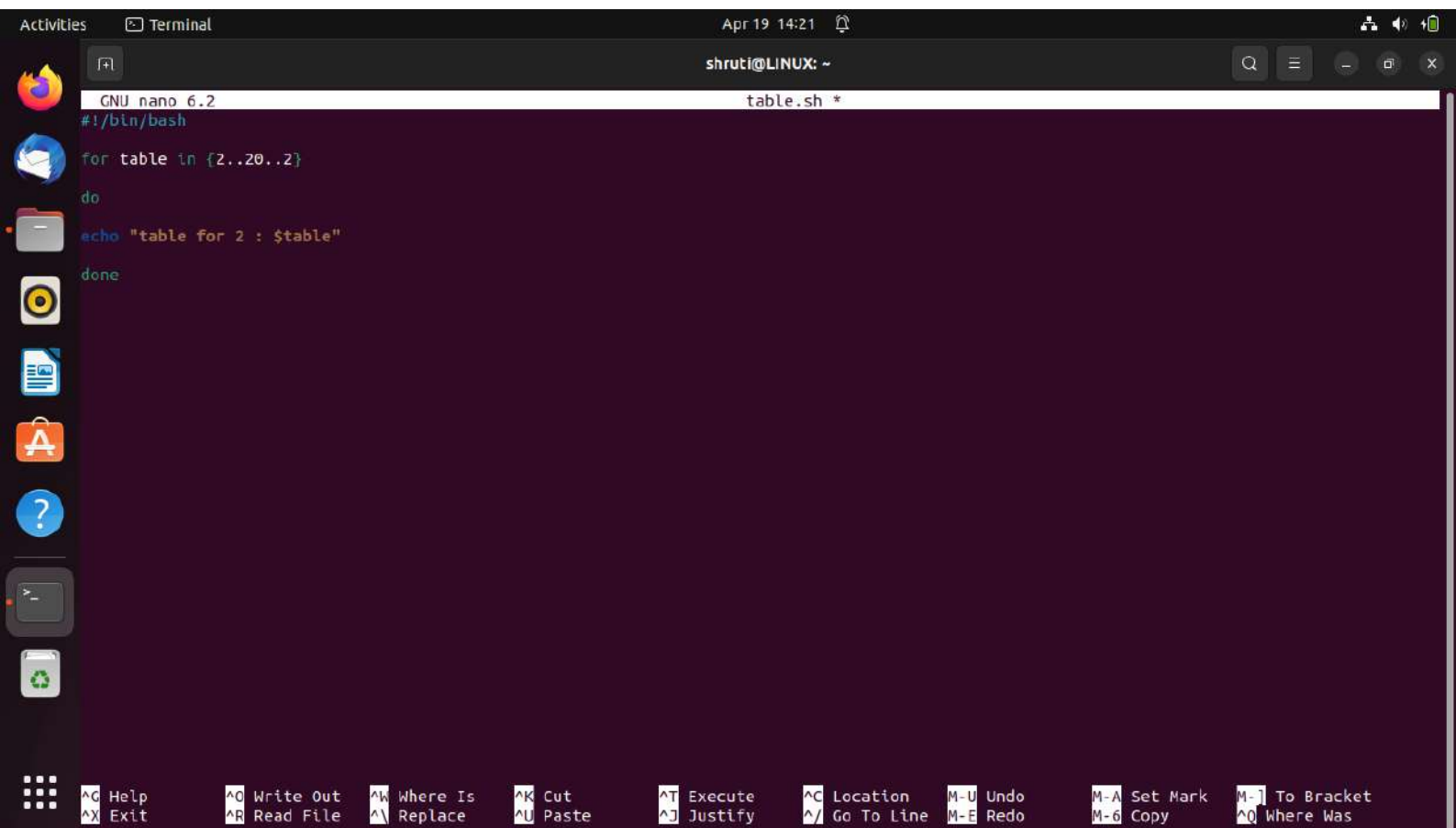
```
table for 2 : 20
shruti@LINUX:~$ nano reverse.sh
shruti@LINUX:~$ chmod +x reverse.sh
shruti@LINUX:~$ ./reverse.sh
10
9
8
7
6
5
4
3
2
1
shruti@LINUX:~$
```

shruti@LINUX: ~

```bash
  GNU nano 6.2                              reverse.sh *
#!/bin/bash

for((  i=10; i >=1;  i--))
do

echo "$i"

done
```

```
You are both
shruti@LINUX:~$ nano table.sh
shruti@LINUX:~$ chmod +x table.sh
shruti@LINUX:~$ ./table.sh
table for 2 : 2
table for 2 : 4
table for 2 : 6
table for 2 : 8
table for 2 : 10
table for 2 : 12
table for 2 : 14
table for 2 : 16
table for 2 : 18
table for 2 : 20
shruti@LINUX:~$
```

shruti@LINUX: ~

```bash
  GNU nano 6.2                                    table.sh *
#!/bin/bash

for table in {2..20..2}

do

echo "table for 2 : $table"

done
```

^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location	M-U Undo	M-A Set Mark	M-] To Bracket
^X Exit	^R Read File	^\ Replace	^U Paste	^J Justify	^/ Go To Line	M-E Redo	M-6 Copy	^Q Where Was

```
./elif.sh: line 19: syntax error: unexpected end of file
shruti@LINUX:~$ nano elif.sh
shruti@LINUX:~$ ./elif.sh
choose color from RED, GREEN, BLUE, ORANGE
RED
You are beautiful
shruti@LINUX:~$ ./elif.sh
choose color from RED, GREEN, BLUE, ORANGE
GREEN
You are lucky
shruti@LINUX:~$ ./elif.sh
choose color from RED, GREEN, BLUE, ORANGE
BLUE
You are both
shruti@LINUX:~$
```