

PROGRAM TO IMPLEMENT FOR LOOP USING "in" KEYWORD ?

for loop is used to iterate over a list of items. In this program, we will use the 'in' keyword to iterate over a list of numbers. The program will print the value of 'i' for each iteration. The list of numbers is {0..5}.

```
tsec@tsec-VirtualBox: ~
File Edit View Search Terminal Help
tsec@tsec-VirtualBox:~$ for i in {0..5};
> do
> echo "$i"
> done
0
1
2
3
4
5
tsec@tsec-VirtualBox:~$
```

The output of the program is as follows: echo 0, echo 1, echo 2, echo 3, echo 4, echo 5. The program prints the value of 'i' for each iteration.

```
tsec@tsec-VirtualBox: ~
File Edit View Search Terminal Help
tsec@tsec-VirtualBox:~$ for i in {0..4};
> do
> echo "WELCOME TO UNIX"
> done
WELCOME TO UNIX
WELCOME TO UNIX
WELCOME TO UNIX
WELCOME TO UNIX
WELCOME TO UNIX
tsec@tsec-VirtualBox:~$
```

The output of the program is as follows: WELCOME TO UNIX, WELCOME TO UNIX, WELCOME TO UNIX, WELCOME TO UNIX, WELCOME TO UNIX. The program prints the value of 'i' for each iteration.

Program to implement for loop using in keyword in Linux

```

tsec@tsec-VirtualBox: ~
File Edit View Search Terminal Help
tsec@tsec-VirtualBox:~$ for i in {0..5};
> do
> echo "WELCOME $i TIMES"
> done
WELCOME 0 TIMES
WELCOME 1 TIMES
WELCOME 2 TIMES
WELCOME 3 TIMES
WELCOME 4 TIMES
WELCOME 5 TIMES
tsec@tsec-VirtualBox:~$ for i in {0..6};
> do
> echo "$i IS NUMBER"
> done
0 IS NUMBER
1 IS NUMBER
2 IS NUMBER
3 IS NUMBER
4 IS NUMBER
5 IS NUMBER
6 IS NUMBER
tsec@tsec-VirtualBox:~$

```

for loop is used to execute a block of code repeatedly for a specified number of times. In the above example, the first loop prints "WELCOME \$i TIMES" for i from 0 to 5, and the second loop prints "\$i IS NUMBER" for i from 0 to 6.

```

tsec@tsec-VirtualBox: ~
File Edit View Search Terminal Help
tsec@tsec-VirtualBox:~$ for i in {1..1};
> do
> echo "THIS IS TSEC"
> for i in {1..1};
> do
> echo "THIS IS AN ENGINEERING COLLEGE"
> done
> done
THIS IS TSEC
THIS IS AN ENGINEERING COLLEGE
tsec@tsec-VirtualBox:~$

```

for loop is used to execute a block of code repeatedly for a specified number of times. In the above example, the first loop prints "THIS IS TSEC" for i from 1 to 1, and the second loop prints "THIS IS AN ENGINEERING COLLEGE" for i from 1 to 1. The variable i is used to store the current value of the loop counter.

```

tsec@tsec-VirtualBox: ~
File Edit View Search Terminal Help
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
tsec@tsec-VirtualBox:~$ for i in SHIVAM;
> do
> echo "$i"
> done
SHIVAM
tsec@tsec-VirtualBox:~$

```

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68. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
69. What are the various services provided by Operating system ?
70. What do you mean by PCB? Where is it used? What are its contents? Explain.
71. What is Binary and Counting semaphores ?
72. What is File? What are the different File attribute and operations?
73. What are System call? Explain briefly about various types of system call provided by an Operating System?
74. Describe necessary conditions for deadlocks situation to arise.
75. What are points to be consider in file system design? Explain linked list allocation in detail?
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77. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5.
How many page faults would occur for the following replacement algorithm, assuming four frames:a) FIFO b) LRU

Program to implement for loop using in keyword in Linux

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- 82. What do you mean by paging in operating system ?