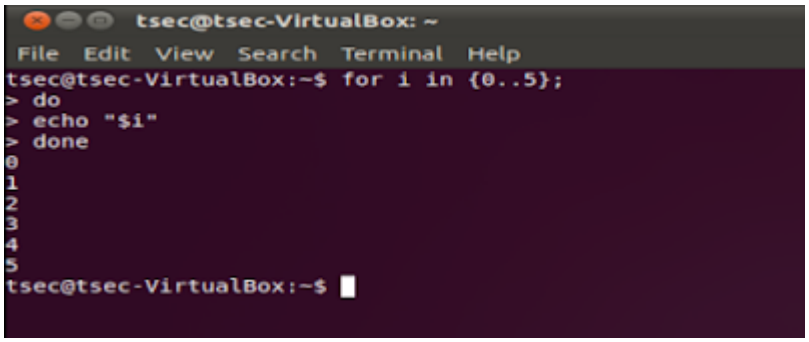

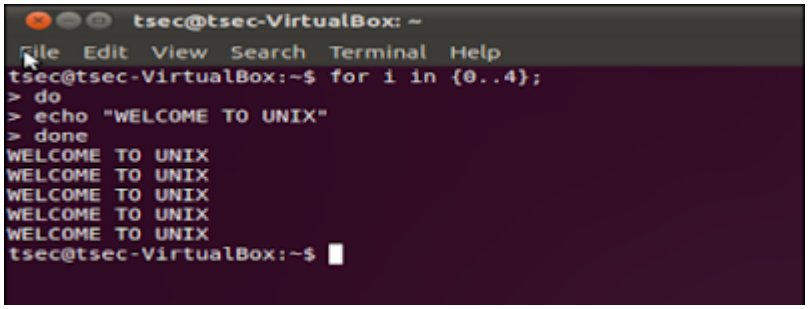

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Program to implement for loop using in keyword in Linux

PROGRAM TO IMPLEMENT FOR LOOP USING “in” KEYWORD ?

फॉर लूप का उपयोग किसी स्टेटमेंट को या फिर ग्रुप ऑफ़ स्टेटमेंट्स को बार बार दोहराने के लिए किया जाता है , जब तक की कंडीशन सही रहती है फॉर लूप में |यह लूप रन होने से पहले कंडीशन को टेस्ट करता है |फॉर लूप स्टेटमेंट्स को कई बार एक्सीक्यूट करता है जब तक की कंडीशन गलत नही हो जाती |इस प्रोग्राम में for के आगे i वेरिएबल हे जो की फॉर लूप की काउंटर वैल्यू को स्टोर करने के लिए है | जैसे i = 0,1,2,3,4,5

tsec@tsec-VirtualBox: ~
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```
tsec@tsec-VirtualBox:~$ for i in {0..5};
> do
> echo "$i"
> done
0
1
2
3
4
5
tsec@tsec-VirtualBox:~$ █
```

इस प्रोग्राम में echo का उपयोग डिस्प्ले करने के लिए हुआ □□|echo, welcome to unix को डिस्प्ले करा रहा है |

tsec@tsec-VirtualBox: ~
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```
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:~$ █
```

इस प्रोग्राम में वेरिएबल की वैल्यू को echo में डिस्प्ले किया गया है | इसके लिए echo में $variable_name जैसे की इस प्रोग्राम में ($i) का उपयोग किया जाता है |

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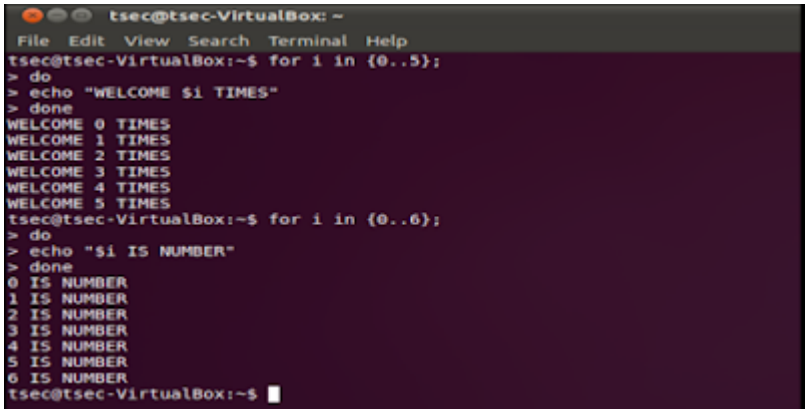

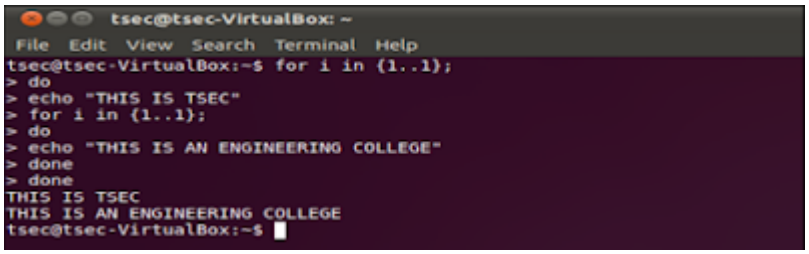

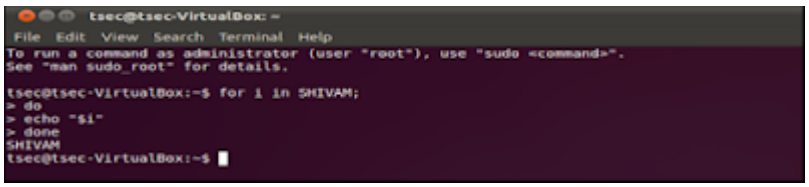

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Program to implement for loop using in keyword in Linux

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 "$i IS NUMBER"
> done
0 IS NUMBER
1 IS NUMBER
2 IS NUMBER
3 IS NUMBER
4 IS NUMBER
5 IS NUMBER
6 IS NUMBER
tsec@tsec-VirtualBox:~$ 
```

इस प्रोग्राम में फॉर लूप के अन्दर फॉर का उपयोग समझाया गया है | इस तरह के फॉर लूप को नेस्टेड फॉर लूप खा जाता है |

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:~$ 
```

इस प्रोग्राम में वेरिएबल में वैल्यू को स्टोर करके डायरेक्टली प्रिंट किया गया है | जैसे की variable i में किसी का नाम डिस्प्ले करना |

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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59. Compare Paging and Segmentation?
60. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
61. Explain concept of a process with its components ?
62. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
63. Explain various Disk scheduling algorithms with Illustrations ?
64. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
65. Discuss advantages and disadvantages of the Buffer cache ?
66. Explain different types of OS with examples of each ?
67. What is an Operating System? Write down its desirable characteristics ?
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?
76. Write a Semaphore solution for dining Philosopher’s problem?
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) FIFOb) LRU

78. Explain CPU schedulers in operating system?
79. Write the different state of a process with the help of Process state deagram?
80. What is Mutex in operating system?
81. Explain Network operating system?
82. What do you mean by paging in operating system ?