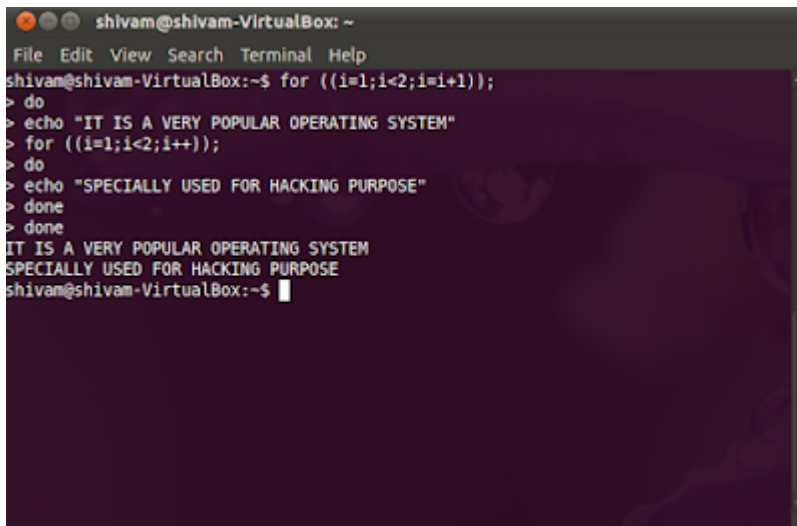


PROGRAM TO IMPLEMENT FOR LOOP WITHOUT USING "in" KEYWORD.

```
tsec@tsec-VirtualBox: ~  
File Edit View Search Terminal Help  
tsec@tsec-VirtualBox:~$ for((i=1;i<=5;i++));  
> do  
> echo "$i WELCOME TIMES"  
> done  
1 WELCOME TIMES  
2 WELCOME TIMES  
3 WELCOME TIMES  
4 WELCOME TIMES  
5 WELCOME TIMES  
tsec@tsec-VirtualBox:~$
```

```
tsec@tsec-VirtualBox: ~  
File Edit View Search Terminal Help  
tsec@tsec-VirtualBox:~$ for((i=0;i<10;i=i+2));  
> do  
> echo "$i WELCOME SHIVAM KALE TO THE WORLD OF LINUX"  
> done  
0 WELCOME SHIVAM KALE TO THE WORLD OF LINUX  
2 WELCOME SHIVAM KALE TO THE WORLD OF LINUX  
4 WELCOME SHIVAM KALE TO THE WORLD OF LINUX  
6 WELCOME SHIVAM KALE TO THE WORLD OF LINUX  
8 WELCOME SHIVAM KALE TO THE WORLD OF LINUX  
tsec@tsec-VirtualBox:~$
```

```
shivam@shivam-VirtualBox: ~  
File Edit View Search Terminal Help  
shivam@shivam-VirtualBox:~$ for((i=0;i<=10;i=i+2));  
> do  
> echo "KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM"  
> done  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
KALI LINUX IS ALSO A TYPE OF UNIX OPERATING SYSTEM  
shivam@shivam-VirtualBox:~$
```

A screenshot of a Linux terminal window titled 'shivam@shivam-VirtualBox: ~'. The terminal shows a for loop being executed: 'for ((i=1;i<2;i=i+1)); do echo "IT IS A VERY POPULAR OPERATING SYSTEM" for ((i=1;i<2;i++)); do echo "SPECIALLY USED FOR HACKING PURPOSE" done done'. The output of the loop is displayed on the next lines: 'IT IS A VERY POPULAR OPERATING SYSTEM' and 'SPECIALLY USED FOR HACKING PURPOSE'. The prompt 'shivam@shivam-VirtualBox:~\$' is visible at the bottom.

```
shivam@shivam-VirtualBox: ~  
File Edit View Search Terminal Help  
shivam@shivam-VirtualBox:~$ for ((i=1;i<2;i=i+1));  
> do  
> echo "IT IS A VERY POPULAR OPERATING SYSTEM"  
> for ((i=1;i<2;i++));  
> do  
> echo "SPECIALLY USED FOR HACKING PURPOSE"  
> done  
> done  
IT IS A VERY POPULAR OPERATING SYSTEM  
SPECIALLY USED FOR HACKING PURPOSE  
shivam@shivam-VirtualBox:~$
```

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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) FIFO b) LRU
78. Explain CPU schedulers in operating system?
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