PROGRAM TO IMPLEMENT WHILE LOOP.

```
Shivam@shivam.VirtualBox:~

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shivam@shivam.VirtualBox:~$ num=0
shivam@shivam.VirtualBox:~$ while (($num<=10));

> do
> echo "$num"
> ((num++))
> done
0
1
2
3
4
5
6
7
8
9
10
shivam@shivam.VirtualBox:~$ ■
```

```
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tsec@tsec-VirtualBox:~$ i=0
tsec@tsec-VirtualBox:~$ while((i<=5))
> do
> echo " $i"
> ((i=i+1))
> done
0
1
2
3
4
5
tsec@tsec-VirtualBox:~$ |
```

```
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ts-c@tsec-VirtualBox:~$ i=ankita

tsec@tsec-VirtualBox:~$ while((i<=5))

> do

echo "$i"
> ((i=i+1))

done

ankita

1

2

3

4

5

tsec@tsec-VirtualBox:~$
```

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- 57. Multiple Processor Scheduling
- 58. What do you mean by Virtual Memory? Write down its advantages?
- 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?