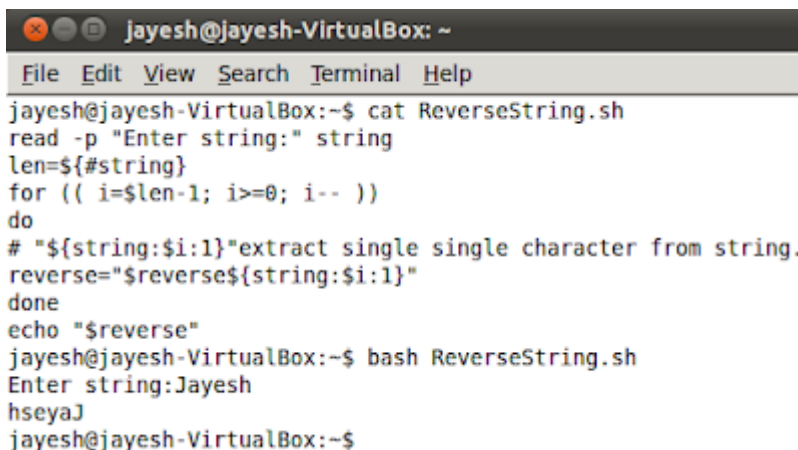


Q. Write a program to print string in reverse order.

Ans.

```
read -p "Enter string:" string
len=${#string}
for (( i=$len-1; i>=0; i-- ))
do
# "${string:$i:1}"extract single character from string.
reverse="$reverse${string:$i:1}"
done
echo "$reverse"
```



```

jayesh@jayesh-VirtualBox: ~
File Edit View Search Terminal Help
jayesh@jayesh-VirtualBox:~$ cat ReverseString.sh
read -p "Enter string:" string
len=${#string}
for (( i=$len-1; i>=0; i-- ))
do
# "${string:$i:1}"extract single character from string.
reverse="$reverse${string:$i:1}"
done
echo "$reverse"
jayesh@jayesh-VirtualBox:~$ bash ReverseString.sh
Enter string:Jayesh
hseyaJ
jayesh@jayesh-VirtualBox:~$

```

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65. Discuss advantages and disadvantages of the Buffer cache ?
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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
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Program to print string in reverse order

81. Explain Network operating system?
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