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## **PALINDROME**

Aim: Write a shell program to check whether a string is a palindrome or not.

## Algorithm:

- 1. Start
- 2. Read the input string from the user into "STRING"
- 3. Initialize the variable "LENGTH" with the length of the input string
- 4. Initialize variable "REVERSE" as an empty string("")
- 5. Define a for loop from "LENGTH 1" to 0
  - a. REVERSE = REVERSE+STRING[i]
- 5. Check if REVERSE == STRING, then print "Palindrome"
- 6. Else print "Not Palindrome"
- 7. STOP

## **Program**

```
#! /bin/bash
echo Program done by Abhinav Rajesh 20219003
echo "Enter the string:"
read STRING

LENGTH=${#$TRING}
REVERSE=""

for (( i=$LENGTH-1; i>=0; i-- ))
do
    REVERSE="$REVERSE${$TRING:$i:1}"
done

if [ $$TRING == $REVERSE ]
then
    echo "$$TRING is palindrome"
else
    echo "$$TRING is not palindrome"
fi
```

## Output

```
Program done by Abhinav Rajesh 20219003
Enter the string:
hello
hello is not palindrome
```

<pre>Program done by Abhinav Rajesh 20219003</pre> ./palindrome.sh
Enter the string:
racecar
racecar is palindrome
Result:
Script to check if a string is a palindrome or not is executed successfully
Remarks: