Vellore Institute of Technology

Principles of Operating Systems Lab (CBS1006)

Digital Assignment 2

Date: 11 September 2022

Name: Anuj Parihar

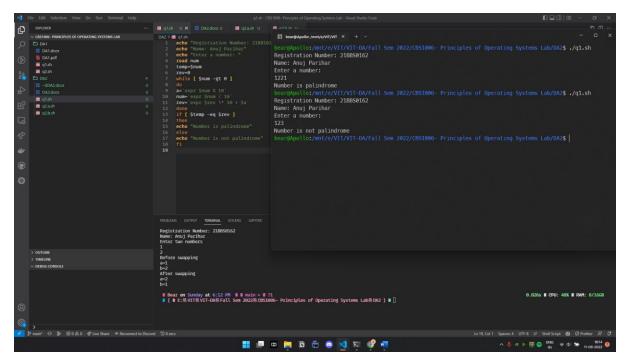
Registration Number: 21BBS0162

Question 1: . Create a shell script programme that checks whether an input number is a palindrome.

Code:

```
echo "Registration Number: 21BBS0162"
echo "Name: Anuj Parihar"
echo "Enter a number: "
read num
temp=$num
rev=0
while [$num -gt 0]
do
a='expr $num % 10'
num=`expr $num / 10`
rev=`expr $rev \* 10 + $a`
done
if [$temp -eq $rev]
then
echo "Number is palindrome"
else
echo "Number is not palindrome"
fi
```

Screenshot:



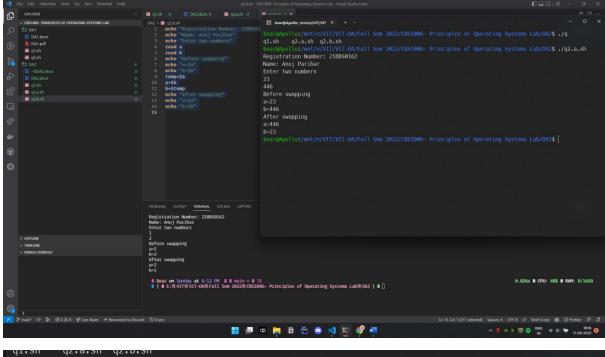
bear@Apollo:/mnt/e/VIT/VIT-DA/Fall Sem 2022/CBS1006- Principles of Operating Systems Lab/DA2\$./q1.sh
Registration Number: 21BBS0162
Name: Anuj Parihar
Enter a number:
1221
Number is palindrome
bear@Apollo:/mnt/e/VIT/VIT-DA/Fall Sem 2022/CBS1006- Principles of Operating Systems Lab/DA2\$./q1.sh
Registration Number: 21BBS0162
Name: Anuj Parihar
Enter a number:
123
Number is not palindrome

Question 2 a: Write a shell script program to swap two numbers with third variable.

Code:

```
echo "Registration Number: 21BBS0162"
echo "Name: Anuj Parihar"
echo "Enter two numbers"
read a
read b
echo "Before swapping"
echo "a=$a"
echo "b=$b"
temp=$a
a=$b
b=$temp
echo "After swapping"
echo "a=$a"
echo "b=$b"
```

Screenshot:



bear@Apollo:/mnt/e/VIT/VIT-DA/Fall Sem 2022/CBS1006— Principles of Operating Systems Lab/DA2\$./q2.a.sh
Registration Number: 21BBS0162
Name: Anuj Parihar
Enter two numbers
23
446
Before swapping
a=23
b=446
After swapping
a=446
b=23

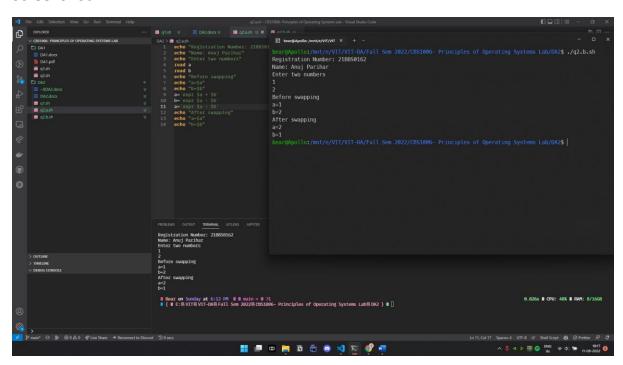
Question 2 b: Write a shell script program to swap two numbers without third variable.

Code:

```
echo "Registration Number: 21BBS0162"
echo "Name: Anuj Parihar"
echo "Enter two numbers"
read a
read b
echo "Before swapping"
echo "a=$a"
echo "b=$b"

a=`expr $a + $b`
b=`expr $a - $b`
a=`expr $a - $b`
echo "After swapping"
echo "a=$a"
echo "b=$b"
```

Screenshot:



```
beardApollo:/mnt/e/VIT/VIT-DA/Fall Sem 2022/CBS1006- Principles of Operating Systems Lab/DA2$ ./q2.b.sh Registration Number: 21BBS0162
Name: Anuj Parihar
Enter two numbers
1
2
Before swapping
a=1
b=2
After swapping
a=2
b=1
```