Lab Assignment-04

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QUES 1: Write a script to find the largest between two numbers using command line argument.

SOLUTION:

```
echo "---Largest Number:--\n"
echo "Enter 1st number: $1"
echo "Enter 2nd number: $2"
echo "\n---On Comparison---\n"
if test $1 -gt $2
then
    echo "$1 is Largest\n"
else
    echo "$2 is Largest\n"
fi
```

OUTPUT:

```
Wed Jan 26 10:48:00 PM

Ss2402@heatcliff24: ~/os_lab/lab_3

ss240
```

QUES 2: Write a script to determine whether a year entered through the keyboard is a leap year or not.

SOLUTION:

OUTPUT:

```
O Applications ▼ ■ Terminal ▼ Wed Jan 26 10:48:25 PM

Ss2402@heatcliff24: ~/os_lab/lab_3

Ss2402@heatcliff24: ~/os_lab/lab_3
```

QUES 3: Write a script to find the area of a triangle by passing 3 sides of the triangle and check the triangle is possible or not.

SOLUTION:

```
echo "---Triangle Check---"
read -p "Enter the three sides of traingle: " side1 side2 side3
if [ `expr $side1 + $side2` -gt $side3 -a `expr $side1 + $side3` -gt $side2 -a `expr $side2 +
$side3` -gt $side1 ]
then
        echo "\nTraingle with sides $side1, $side2 and $side3 is possible\n"
        semi=`echo "scale=2; ($side1+$side2+$side3)/2" | bc`
        area=`echo "scale=2; sqrt($semi*($semi-$side1)*($semi-$side2)*($semi-$side3))"|bc`
        echo "Area of triangle is $area"
else
        echo "\nTraingle with sides $side1, $side2 and $side3 is not possible\n"
fi
```

OUTPUT:



QUES 4: Write a script to check the number is odd or even.

SOLUTION:

```
echo "---Odd Even Checker---\n"
read -p "Enter a number: " num
if [ `expr $num % 2` -eq 0 ]
then
    echo "$num is Even"
else
    echo "$num is Odd"
fi
```

OUTPUT:

```
O Applications ▼ ■ Terminal ▼ Wed Jan 26 10:48:55 PM

SS2402@heatcliff24: ~/os_lab/lab_3

SS2402@heatcliff24: ~/os_lab/lab_3
```

QUES 5: Write a script the check the number is palindrome or not of 3 digit number.

SOLUTION:

OUTPUT:



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