ASSIGNMENT NO:3 DATE:15/02/2016

PROGRAM TITLE: Calculate ab.

THEORY:

We take the inputs using command line arguments. We calculate the power with the help of a function.

PROGRAM CODE:

```
#Shell Program to calculate a to the power b
a = $1
b = $2
echo "We are going to calculate" $a " to the power " $b
pow()
{
     x=1 #we can access and edit a and b here
     while [ $b -gt 0 ]
     do
           x=`expr $x \* $a`
           b=`expr $b - 1`
     done
     #nothing is being returned
}
pow
echo "The answer is::" x + x can also be accessed (and edited) here
```

OUTPUT:

Set 1:

```
Input:sh ass3.sh 2 3
We are going to calculate 2 to the power 3
The answer is:: 8
Set 2:
Input:sh ass3.sh 4 8
```

We are going to calculate 4 to the power 8 The answer is:: 65536

DISCUSSION:

1. The same variables are being used everywhere within the program.