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22BRS1369
OS LAB-2

1. Program to print the input name

```
echo "HI"  
read name  
echo "Your Name = $name"|
```

```
ex5@ThinkStation-P348:~/Desktop/OS$ bash name.sh  
HI  
Dinesh  
Your Name = Dinesh
```

2. Program to print the input number

```
echo "Enter a number:"|  
read number  
echo "Your number = $number"
```

```
ex5@ThinkStation-P348:~/Desktop/OS$ bash number.sh  
Enter a number:  
67  
Your number = 67
```

3. Program to print the sum of two numbers

```
echo "Enter the first number"  
read num1;  
echo "Enter the Second number"  
read num2;  
sum=$(( $num1 + $num2 ))  
echo "sum is = $sum"
```

```
ex5@ThinkStation-P348:~/Desktop/OS$ bash add.sh  
Enter the first number  
10  
Enter the Second number  
20  
sum is = 30
```

4. Program to find the smallest of two numbers

```
echo "Enter the first number"
read num1;
echo "Enter the Second number"
read num2;
if [[ $num1 -ge $num2 ]]
then
    echo "num2 is minimum" $num2
else
    echo "num1 is minimum" $num1
fi
```

```
ex5@ThinkStation-P348:~/Desktop/OS$ bash smallest.sh
Enter the first number
100
Enter the Second number
78
num2 is minimum 78
```

```
echo "Enter the password"
read password
len="${#password}"
if test $len -ge 8;then
    echo "$password" | grep -q [0-9]
    if test $? -eq 0 ; then
        echo "$password" | grep -q [A-Z]
        if test $? -eq 0 ; then
            echo "$password" | grep -q [a-z]
            if test $? -eq 0 ; then
                echo "Password accepted"
            else
                echo "include lower case"
            fi
        else
            echo "include upper case"
        fi
    else
        echo "include numbers"
    fi
else
    echo "length should be greater than 8"
fi
```

5. Program to verify the input password is valid or not

```
ex5@ThinkStation-P348:~/Desktop/OS$ touch verify.sh
ex5@ThinkStation-P348:~/Desktop/OS$ bash verify.sh
Enter the password
abc
length should be greater than 8
ex5@ThinkStation-P348:~/Desktop/OS$ bash verify.sh
Enter the password
abcderjffj
include numbers
ex5@ThinkStation-P348:~/Desktop/OS$ bash verify.sh
Enter the password
ahjjjfh88
include upper case
ex5@ThinkStation-P348:~/Desktop/OS$ Hakdkkkf66
Hakdkkkf66: command not found
ex5@ThinkStation-P348:~/Desktop/OS$ bash verify.sh
Enter the password
hufiuJ77c
Password accepted
```