```bash
GNU nano 6.2
#!/bin/bash
echo "Enter the value of n : "
read n
echo "The expected pattern is: "
for((i==1;i<=n;i++))
do
        for((j=1;j<=i;j++))
        do
                echo -n "$j"
        done
        echo""
done
```

```
srishtirupa@linux:~$ nano s1.sh
srishtirupa@linux:~$ chmod 777 s1.sh
srishtirupa@linux:~$ bash s1.sh
Enter the value of n :
5
The expected pattern is:

-n1

-n1
-n2

-n1
-n2
-n3

-n1
-n2
-n3
-n4

-n1
-n2
-n3
-n4
-n5

srishtirupa@linux:~$ nano s1.sh
srishtirupa@linux:~$ bash s1.sh
Enter the value of n :
5
The expected pattern is:

1
12
123
1234
12345
srishtirupa@linux:~$ nano s1.sh
srishtirupa@linux:~$
```

```
  GNU nano 6.2
#!/bin/bash

echo "Enter the value of n : "

read n

echo "The expected pattern is: "

num=1
row=1
while[ $row -le $n ]
do

        for((i==1;i<=row;i++))
        do
                echo -n "$num"
                num=$((num+1))
        done
        echo""
        row=$((row+1))
done

```

```
srishtirupa@linux:~$ touch s3.sh
srishtirupa@linux:~$ chmod 777 s3.sh
srishtirupa@linux:~$ nano s3.sh
srishtirupa@linux:~$ bash s3.sh
Enter the numbers for  addition :
2 3
sum is 5
srishtirupa@linux:~$
```

```
  GNU nano 6.2
#!/bin/bash
echo "Enter the numbers for  addition : "
read n1 n2
sum=$(echo "$n1 + $n2" |bc)
echo "sum is $sum"
```

```bash
#!/bin/bash
if[ $# -ne 3 ];
then
        echo "Usage:$0 n1 operator n2"
        exit 1
fi

n1=$1
operator=$2
n2=$3
case $operator in
        +)
                result=$(echo "$n1 + $n2" |bc)
                ;;
        -)
                result=$(echo "$n1 - $n2" |bc)
                ;;
        \*)
                result=$(echo "$n1 * $n2" |bc)
                ;;
        /)
                result=$(echo "$n1 / $n2" |bc)
                ;;
        *)
                echo "Invalid Operator"
        exit 1
esac
echo "the $operator of $n1 and $n2 is $result"
```

```
srishtirupa@linux:~$ nano a1.sh
srishtirupa@linux:~$ ./a1.sh
./a1.sh: line 4: -h: command not found

srishtirupa@linux:~$ nano a1.sh
srishtirupa@linux:~$ ./a1.sh
./a1.sh: line 4: var: command not found

srishtirupa@linux:~$ nano a1.sh
srishtirupa@linux:~$ ./a1.sh
tmpfs
tmpfs
tmpfs
tmpfs

srishtirupa@linux:~$ ./a1.sh
```

```bash
#!/bin/bash
function find_files()
{
        var= df -h | awk '{if($5<10) print $1}'
        echo $var
}
find_files
```