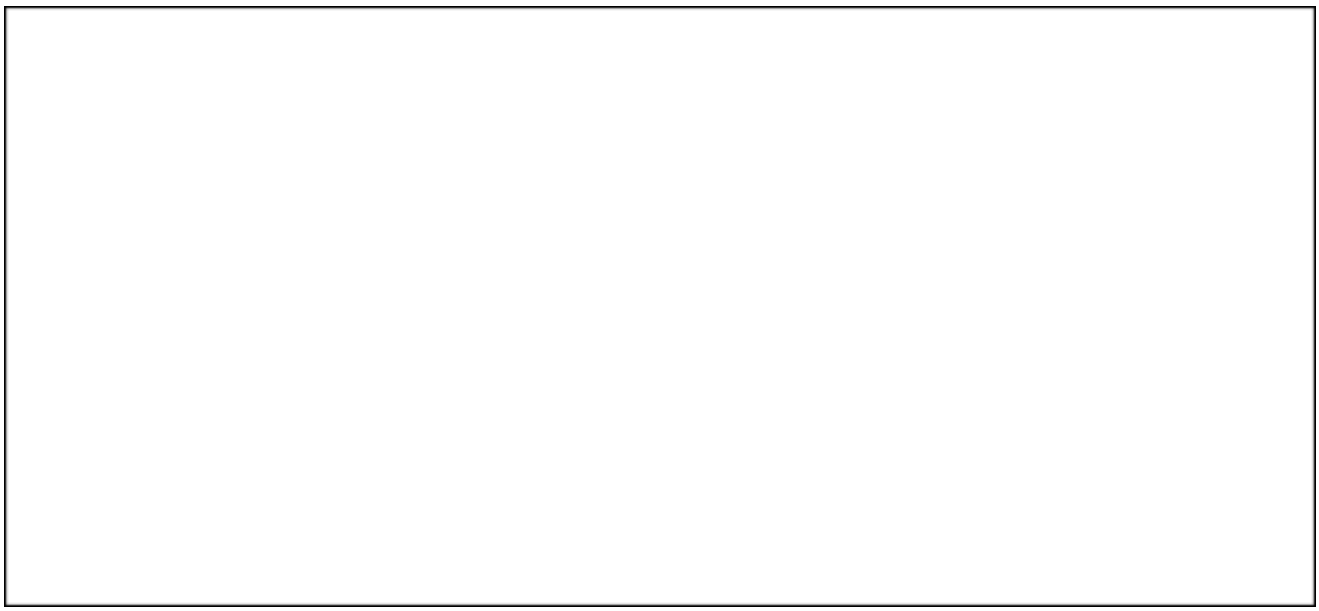
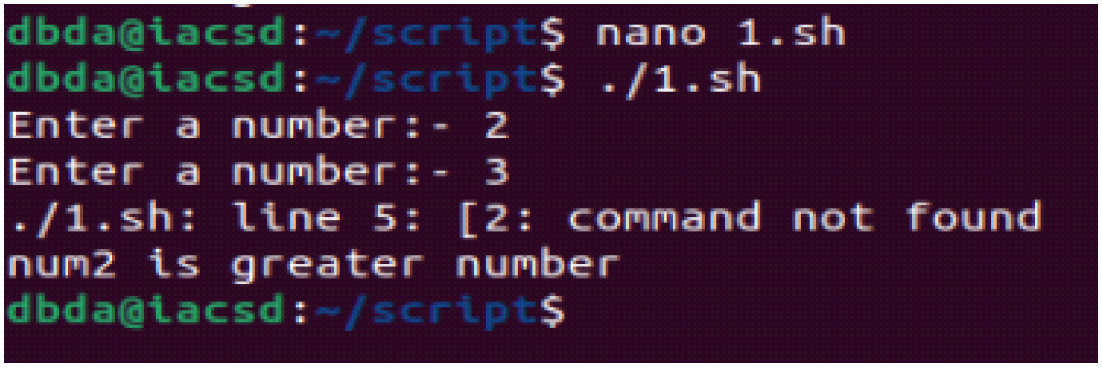
1.

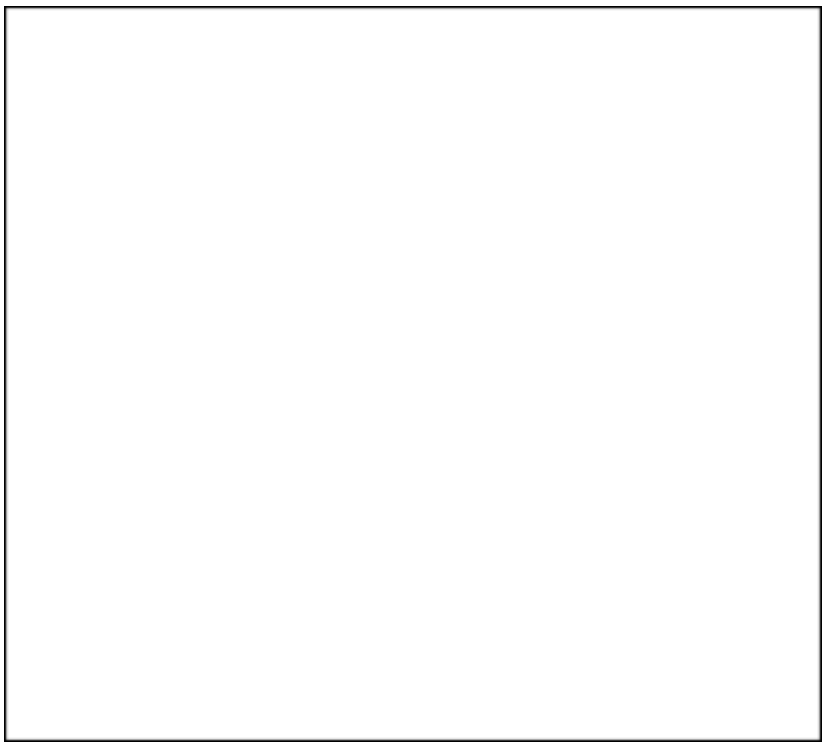


```
#!/bin/bash
read -p "Enter a number:- " num1
read -p "Enter a number:- " num2

if [$num1 -gt $num2]
then
        echo "num1 is graeter number"
else
        echo "num2 is greater number"
fi
```


dbda@iacsd:~/script$ nano 1.sh
dbda@iacsd:~/script$ ./1.sh
Enter a number:- 2
Enter a number:- 3
./1.sh: line 5: [2: command not found
num2 is greater number
dbda@iacsd:~/script$

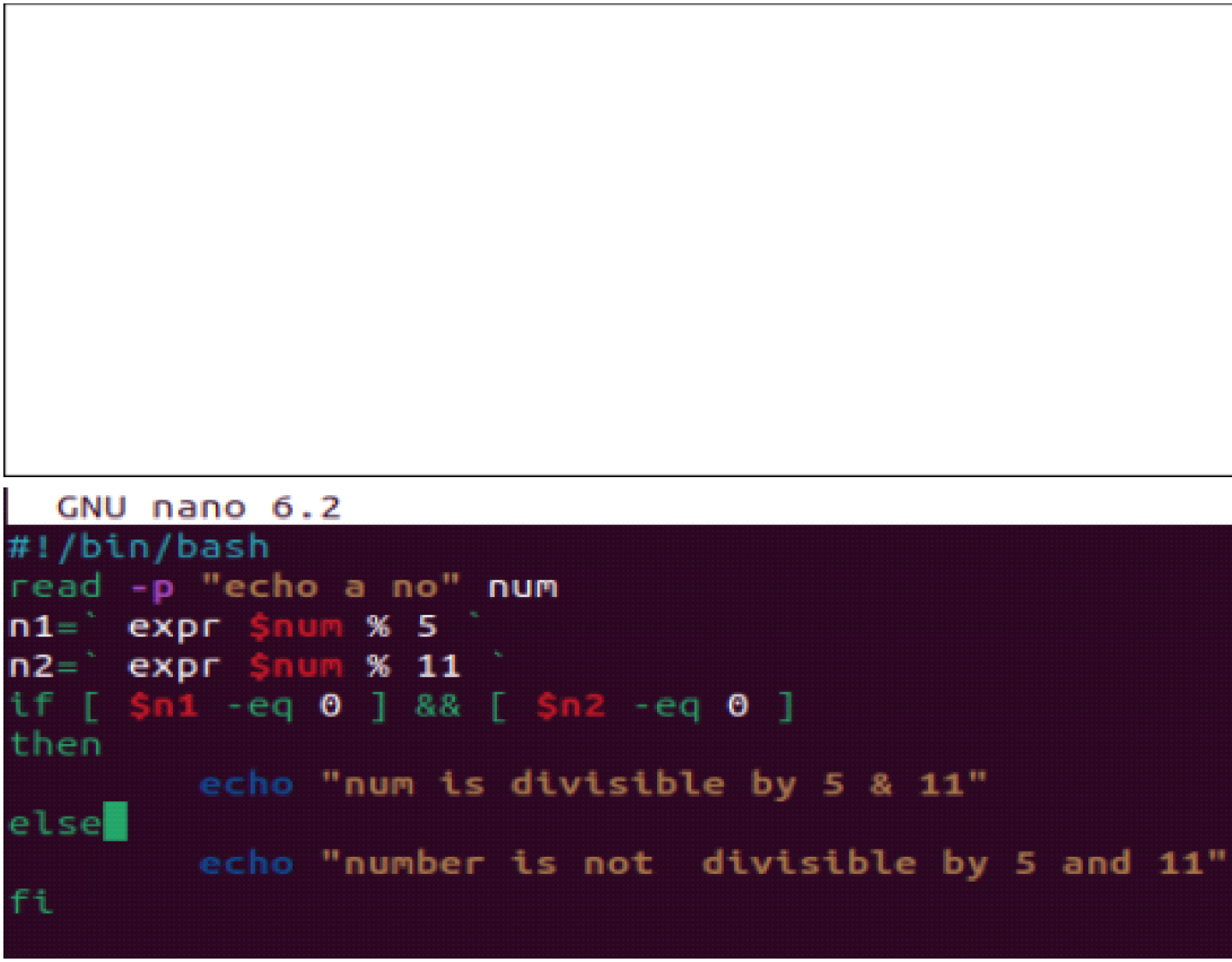
2

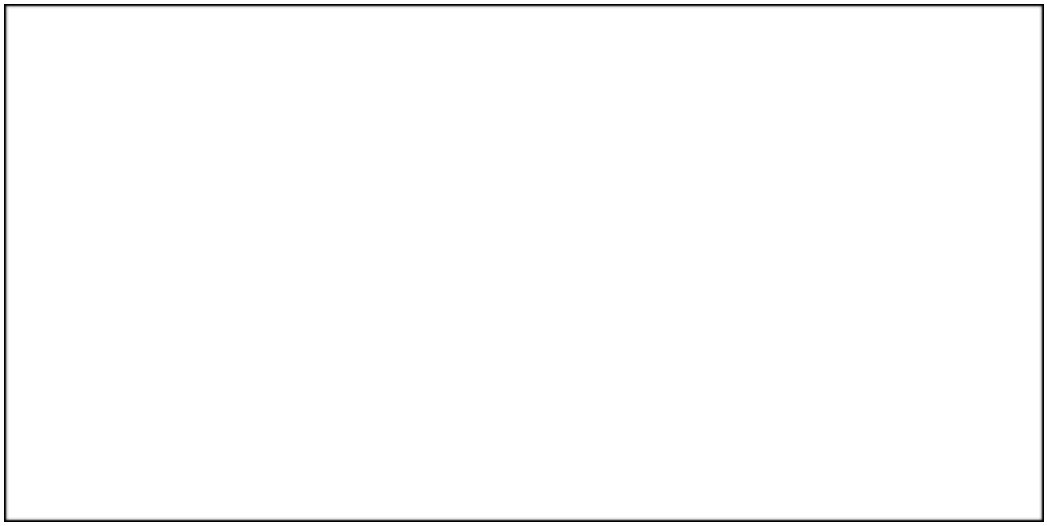
```
#!/bin/bash
read -p "enter number_1-:" num1
read -p "enter number_2-:" num2
read -p "enter number_3-:" num3

if [ $num1 -gt  $num2 ] && [ $num1 -gt $num3 ]
then
        echo "$num1 is greater number"
elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
then
        echo "$num2 is greather number"
elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
then
        echo "$num3 is greater number"
fi
```



```
dbda@iacsd:~/script$ ./2.sh
enter number_1-:1
enter number_2-:2
enter number_3-:3
3 is greater number
dbda@iacsd:~/script$ ./2.sh
enter number_1-:2
enter number_2-:3
enter number_3-:1
3 is greather number
dbda@iacsd:~/script$ ./2.sh
enter number_1-:2
enter number_2-:1
enter number_3-:3
3 is greater number
dbda@iacsd:~/script$ ./2.sh
```

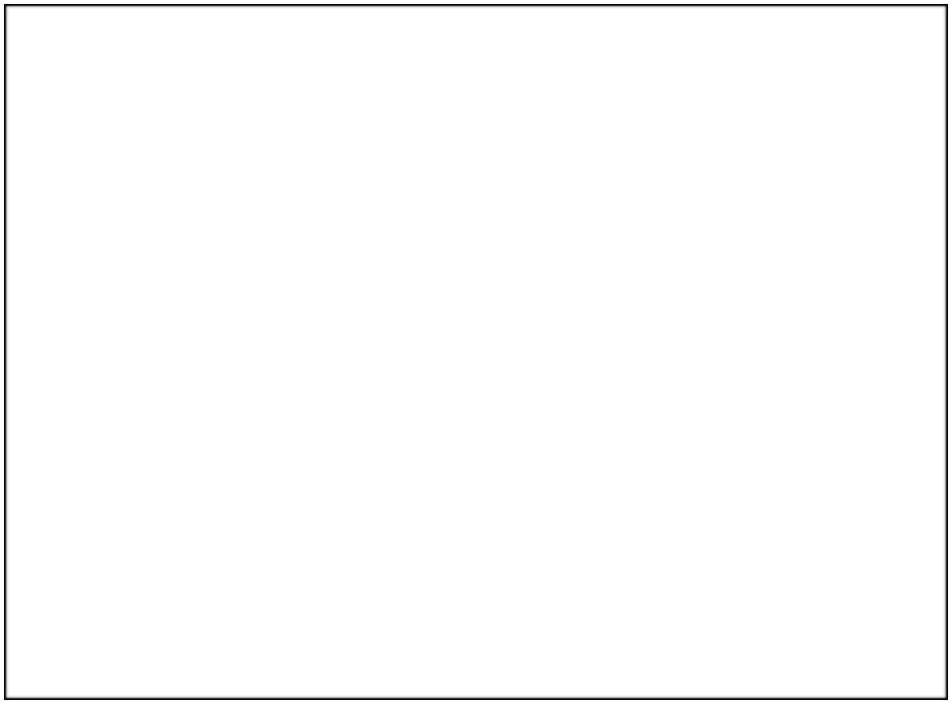
4.


GNU nano 6.2
#!/bin/bash
read -p "echo a no" num
n1=` expr $num % 5 `
n2=` expr $num % 11 `
if [$n1 -eq 0] && [$n2 -eq 0]
then
echo "num is divisible by 5 & 11"
else
echo "number is not divisible by 5 and 11"
fi

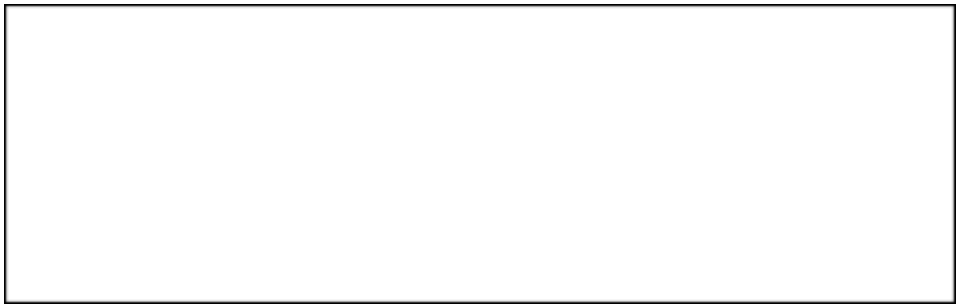


```
dbda@iacsd:~/script$ ./4.sh
echo a no50
number is not  divisible by 5 and 11
dbda@iacsd:~/script$ nano 4.sh
dbda@iacsd:~/script$ 55
55: command not found
dbda@iacsd:~/script$ ./4.sh
echo a no55
num is divisible by 5 & 11
dbda@iacsd:~/script$ nano 4.sh
dbda@iacsd:~/script$
```

5.

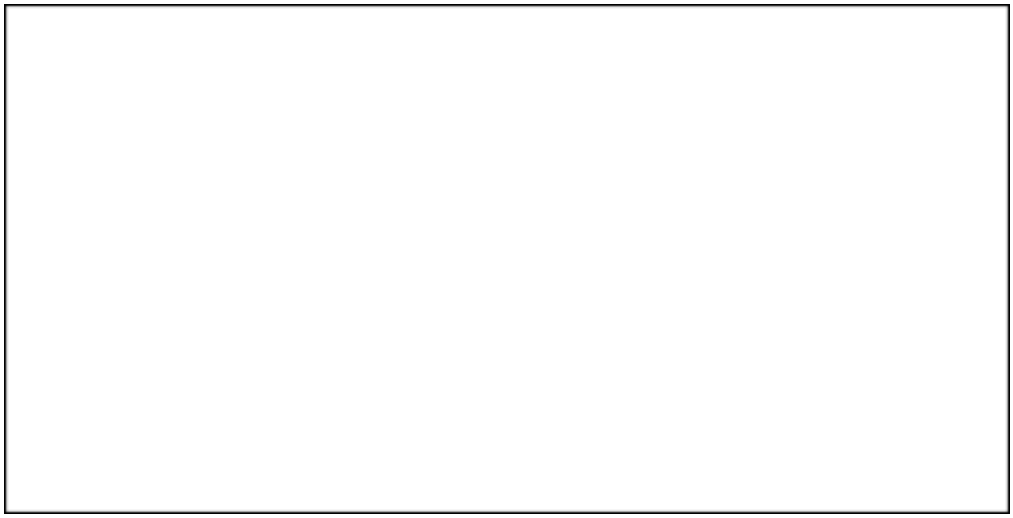


```
  GNU nano 6.2
#!/bin/bash
read -p "enter number-:" num
n=` expr $num % 2 `
if [ $n -eq 0 ]
then
        echo "number is even"
elif [ $n -ne 0 ]
then
        echo "number is odd"
else
        echo "no is zero"
fi
```

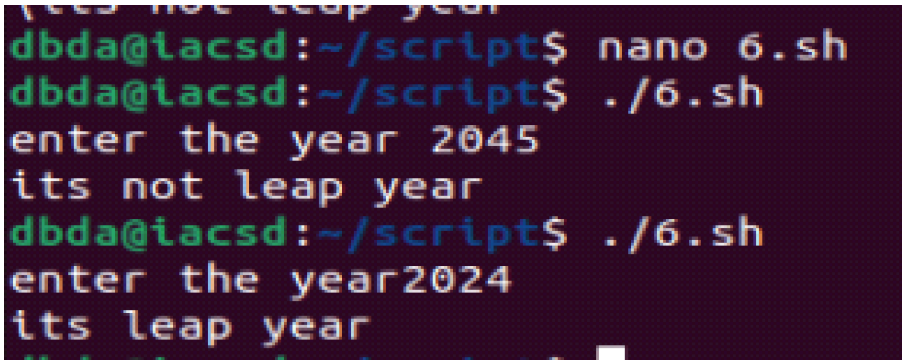


```
dbda@iacsd:~/script$ ./5.sh
enter number-:4
number is even
dbda@iacsd:~/script$ ./5.sh
enter number-:5
number is odd
```

6.

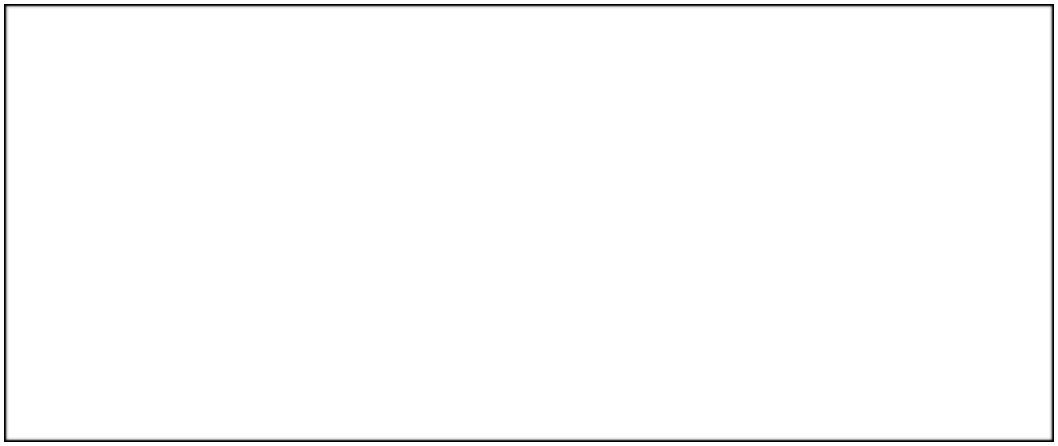


```
read -p "enter the year" year
n=` expr $year % 4 `
n2=` expr $year % 400 `
if [ $n -eq 0 ] || [ $n2 -eq 0 ]
then
        echo "its leap year"
else
        echo "its not leap year"
fi
```


dbda@iacsd:~/script$ nano 6.sh
dbda@iacsd:~/script$ ./6.sh
enter the year 2045
its not leap year
dbda@iacsd:~/script$ ./6.sh
enter the year2024
its leap year

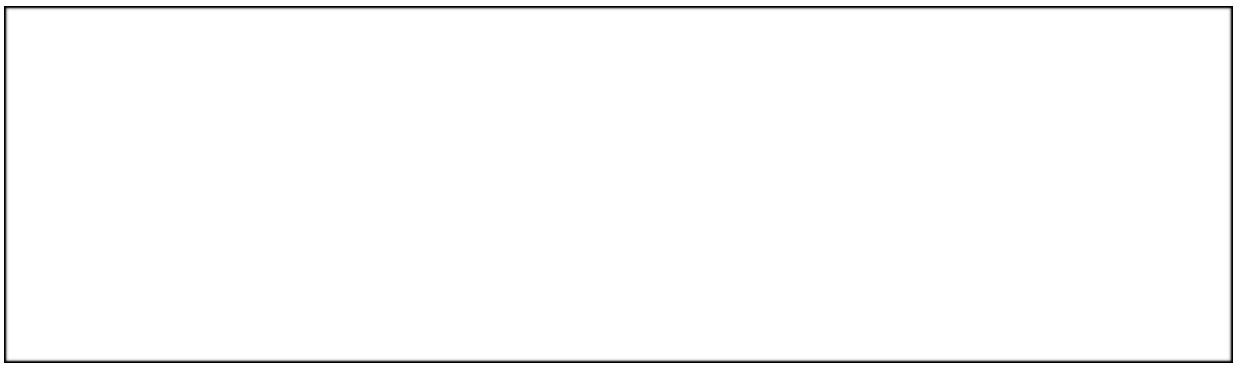
7


GNU nano 6.2
read -p "enter the age" age
if [$age -ge 18]
then
echo "candidate is elligible to vote"
elif [$age -lt 18]
then
echo "candidate is not valid to vote"
fi



```
dbda@iacsd:~/script$ nano 7.sh
dbda@iacsd:~/script$ ./7.sh
enter the age18
candidate is elligible to vote
dbda@iacsd:~/script$ ./7.sh
enter the age17
candidate is not valid to vote
dbda@iacsd:~/script$ nano 7.sh
dbda@iacsd:~/script$
```

8



```
12345678910dbda@iacsd:~/script$ cat 8.sh
for a in {1..10}
do
        echo -n $a
done
dbda@iacsd:~/script$ ./8.sh
12345678910dbda@iacsd:~/script$
```

9

```
dbda@iacsd:~/script$ cat 8.sh
for a in {1..10}
do
        echo -n " $a "
done
dbda@iacsd:~/script$ ./8.sh
 1  2  3  4  5  6  7  8  9  10 dbda@iacsd:~/script$
```

10

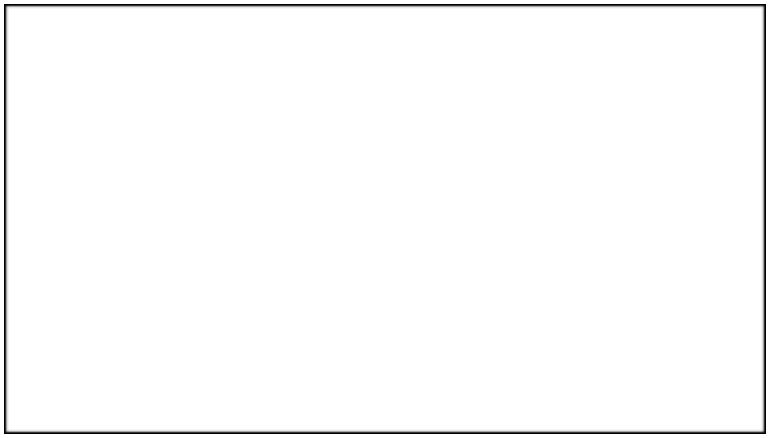
```
#!/bin/bash
read -p "test data :" n
echo "the first" $n "natural number is:"
for((i=1;i<=n;i++))
do
echo -n " $i"
done
echo ""
sum=0
for((i=1;i<=n;i++))
do
sum=$((sum+i))
done
echo "the sum of natural numbers upto"$n "is" $sum
```

```
dbda@IACSD:~$ nano q10.sh
dbda@IACSD:~$ chmod u+x q10.sh
dbda@IACSD:~$ ./q10.sh
test data :7
the first 7 natural number is:
 1 2 3 4 5 6 7
the sum of natural numbers upto7 is 28
dbda@IACSD:~$
```

11

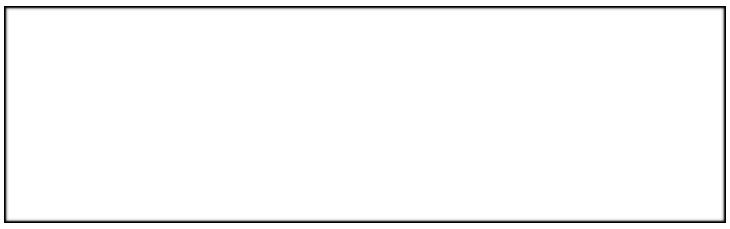
```
#!/bin/bash
read -p "test data :" n
echo "the first" $n "natural number is:"
for((i=1;i<=n;i++))
do
echo -n " $i"
done
echo ""
sum=0
for((i=1;i<=n;i++))
do
sum=$((sum+i))
done
echo "the sum of natural numbers upto"$n "is" $sum
```

12

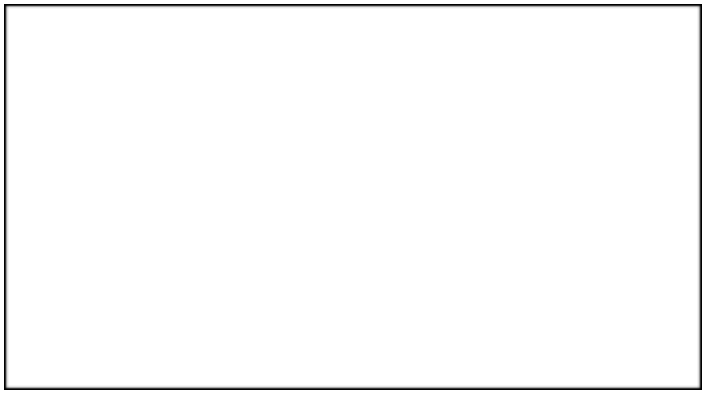


```
dbda@IACSD:~$ nano q11.sh
dbda@IACSD:~$ chmod u+x q11.sh
dbda@IACSD:~$ ./q11.sh
number 1- 2
number 2- 5
number 3- 4
number 4- 8
number 5- 12
number 6- 89
number 7- 3
number 8- 90
number 9- 1
number 10- 32
sum is 246
average is: 24.60
dbda@IACSD:~$
```

13

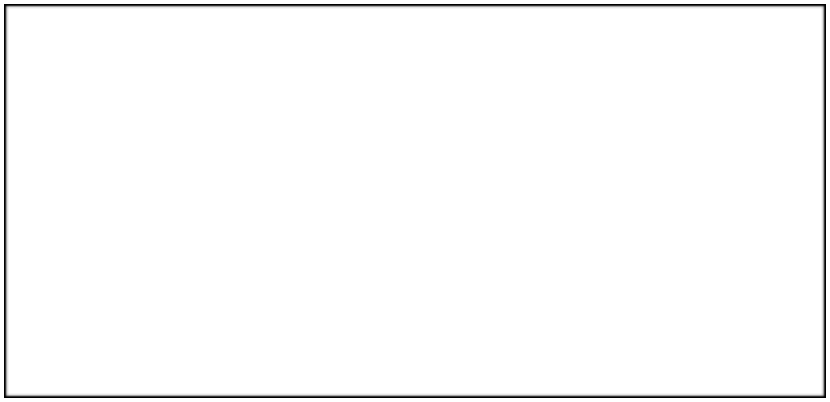


```
#!/bin/bash
read -p "input the number(table to be calculate)" n
for ((i=1;i<=10;i++))
do
echo $n"X"$i"=" ` echo "$n*$i" | bc `
done
```

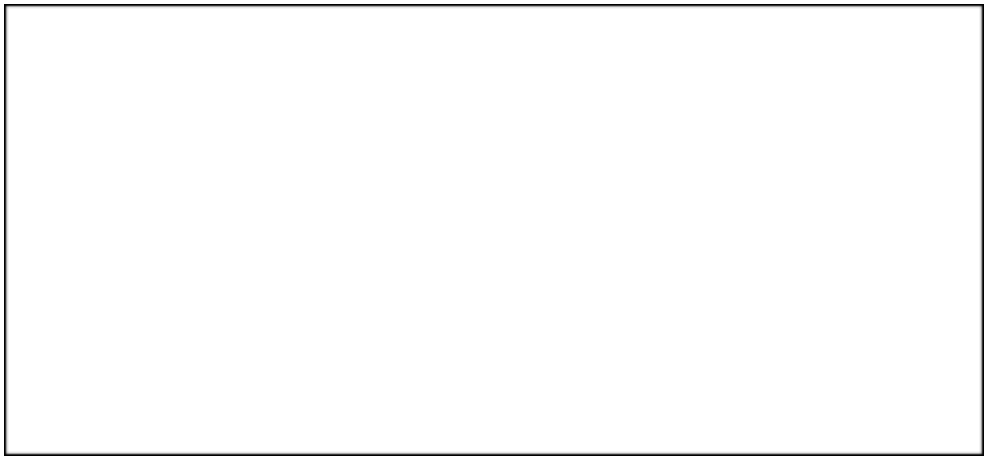


```
dbda@IACSD:~$ nano q13.sh
dbda@IACSD:~$ chmod u+x q13.sh
dbda@IACSD:~$ ./q13.sh
input the number(table to be calculate)15
15X1= 15
15X2= 30
15X3= 45
15X4= 60
15X5= 75
15X6= 90
15X7= 105
15X8= 120
15X9= 135
15X10= 150
dbda@IACSD:~$
```

14



```
#!/bin/bash
read -p "input upto thetable starting from 1:" n
for(( i=1;i<=10;i++))
do
for((j=1;j<=n;j++))
do
echo -n  $j"X"$i"=" ` echo "$j*$i" | bc ` ","
done
echo ""
done
```



```
dbda@IACSD:~$ nano q14.sh
dbda@IACSD:~$ chmod u+x q14.sh
dbda@IACSD:~$ ./q14.sh
input upto thetable starting from 1:8
1X1= 1 ,2X1= 2 ,3X1= 3 ,4X1= 4 ,5X1= 5 ,6X1= 6 ,7X1= 7 ,8X1= 8 ,
1X2= 2 ,2X2= 4 ,3X2= 6 ,4X2= 8 ,5X2= 10 ,6X2= 12 ,7X2= 14 ,8X2= 16 ,
1X3= 3 ,2X3= 6 ,3X3= 9 ,4X3= 12 ,5X3= 15 ,6X3= 18 ,7X3= 21 ,8X3= 24 ,
1X4= 4 ,2X4= 8 ,3X4= 12 ,4X4= 16 ,5X4= 20 ,6X4= 24 ,7X4= 28 ,8X4= 32 ,
1X5= 5 ,2X5= 10 ,3X5= 15 ,4X5= 20 ,5X5= 25 ,6X5= 30 ,7X5= 35 ,8X5= 40 ,
1X6= 6 ,2X6= 12 ,3X6= 18 ,4X6= 24 ,5X6= 30 ,6X6= 36 ,7X6= 42 ,8X6= 48 ,
1X7= 7 ,2X7= 14 ,3X7= 21 ,4X7= 28 ,5X7= 35 ,6X7= 42 ,7X7= 49 ,8X7= 56 ,
1X8= 8 ,2X8= 16 ,3X8= 24 ,4X8= 32 ,5X8= 40 ,6X8= 48 ,7X8= 56 ,8X8= 64 ,
1X9= 9 ,2X9= 18 ,3X9= 27 ,4X9= 36 ,5X9= 45 ,6X9= 54 ,7X9= 63 ,8X9= 72 ,
1X10= 10 ,2X10= 20 ,3X10= 30 ,4X10= 40 ,5X10= 50 ,6X10= 60 ,7X10= 70 ,8X10= 80 ,
dbda@IACSD:~$
```