main.bash

```bash
#!/bin/sh
echo "enter a number"
read a
square=$((a*a))
echo "square of "$a"="$square
```

input

```
enter a number
14
square of 14=196


...Program finished with exit code 0
Press ENTER to exit console.
```

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Language Bash

main.bash

```bash
#!/bin/sh
echo "enter a number"
read a
cube=$((a*a*a))
echo "cube of "$a" ="$cube
```

input

```
enter a number
20
cube of 20 =8000


...Program finished with exit code 0
Press ENTER to exit console.
```

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Language Bash

main.bash

```bash
#!/bin/bash
echo "enter length"
read l
echo "enter base"
read b
area=$((1*b))
echo "area of triangle "=$area
```

input

```
enter length
12
enter base
8
area of triangle =96


...Program finished with exit code 0
```

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Language Bash

main.bash

```bash
1  #!/bin/bash
2  echo "enter three numbers:"
3  read a
4  read b
5  read c
6  if [ $a - gt $b ] && [ $a -gt $c ]#
7  then
8      echo "$a is largest number"
9  elif [ $b - gt $a ] && [ $b -gt $c ]
10 then
11     echo "$b is largest number"
12 else
13     echo "$c is largest number"
14 fi
15
```

input

```
enter three numbers:
12

123
main.bash: line 6: [: -: binary operator expected
main.bash: line 9: [: gt: binary operator expected
123 is largest number
```

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main.bash

```bash
#!/bin/bash
echo "enter year:"
read y
year=$y
y=$(($y % 4))
if [ $y - eq 0]
then
        echo "$year is leap year"
else
        echo "$year is not a leap year"
fi
```

```
input
enter year:
2004
main.bash: line 6: [: missing ']'
2004 is not a leap year


...Program finished with exit code 0
Press ENTER to exit console.
```

https://www.onlinegdb.com/online_bash_shell

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main.bash

```bash
 1  #!/bin/bash
 2  echo "enter year:"
 3  read y
 4  year=$y
 5  y=$(( $y % 4 ))
 6  if [ $y -eq 0 ]
 7  then
 8      echo "$year is leap year"
 9  else
10      echo "$year is not a leap year"
11  fi
```

input

```
enter year:
2007
2007 is not a leap year


...Program finished with exit code 0
Press ENTER to exit console.
```

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main.bash

```bash
1  #!/bin/bash
2  echo "enter year:"
3  read y
4  year=$y
5  y=$(( $y % 4 ))
6  if [ $y -eq 0 ]
7  then
8          echo "$year is leap year"
9  else
10         echo "$year is not a leap year"
11 fi
```

input

```
enter year:
2004
2004 is leap year


...Program finished with exit code 0
Press ENTER to exit console.
```

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```bash
#!/bin/bash
echo "enter number of students:"
read n
a=1
for((a=1;a<n;a++))
do
        echo "enter student name:"
        read student
        echo "english marks"
        read english
        echo "maths marks"
        read maths
        echo "science marks"
        read science
        sum=$(($english+$maths+$science))
        per=$((100*$sum/300))
        echo "total =" $sum
        echo "percentage=" $per
done
```

input

```
maths marks
86
science marks
78
total = 261
percentage= 87
enter student name:
```

Run   Debug   Stop   Share   Save   {} Beautify   ⬇   Language Bash

main.bash

```bash
1  #!/bin/bash
2  echo "enter a number: "
3  read a
4  echo "enter a number: "
5  read b
6  sum=$((a+b))
7  echo "sum ="$sum
8  subtraction=$((a-b))
9  echo "subtraction ="$subtraction
10 mult=$((a*b))
11 echo "product="$mult
12 div=$((a/b))
13 echo "division="$div
```

input

```
enter a number:
45
enter a number:
34
sum =79
subtraction =11
product=1530
division=1


...Program finished with exit code 0
Press ENTER to exit console.
```

Run   Debug   Stop   Share   Save   {} Beautify   ⬇   Language Bash

main.bash

```bash
#!/bin/bash
echo "enter a integer"
read m
a=1
echo "n natural numbers: "
for ((a=1;a<m;a++))
do
        echo $a
done
```

input

```
enter a integer
5
n natural numbers:
1
2
3
4


...Program finished with exit code 0
Press ENTER to exit console.
```

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Language Bash

main.bash

```bash
 1  #!/bin/bash
 2  echo "enter a number"
 3  read n
 4  sum=0
 5  temp=$n
 6  while [ $n -gt 0 ]
 7  do
 8  r=$((n%10))
 9  sum=$((r+sum*10))
10  n=$((n/10))
11  done
12  if [ $temp -eq $sum ]
13  then
14  echo "palindrome"
15  else
16  echo "not a palindrome"
17  fi
```

input

```
enter a number
121
palindrome


...Program finished with exit code 0
Press ENTER to exit console.
```

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```bash
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main.bash
1  #!/bin/bash
2  echo "enter binary number"
3  read n
4  function binarycon(){
5  local i=0
6  local num=0
7  while [$n != 0]
8  do
9  digit=$(( $n % 10))
10  num=$((num+digit * 2***i))
11  n=$(($n / 10))
12  (( ++i ))
13  done
14  echo "resultant decimal number"
15   echo "$num"
16  }
17  #function call
18  binarycon
```

```
                                        input
enter binary number
10011
main.bash: line 7: [10011: command not found
resultant decimal number
0


...Program finished with exit code 0
Press ENTER to exit console.
```

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```bash
#!/bin/bash
echo "enter binary number"
read n
function binarycon(){
local i=0
local num=0
while [$n != 0]
do
digit=$(( $n % 10))
num=$((num+digit * 2***i))
n=$(($n / 10))
(( ++i ))
done
echo "resultant decimal number"
 echo "$num"
}
#function call
binarycon
```

```
input
enter binary number
100100
main.bash: line 7: [100100: command not found
resultant decimal number
0


...Program finished with exit code 0
Press ENTER to exit console.
```

https://www.onlinegdb.com/online_bash_shell

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Language Bash

main.bash

```bash
1  #!/bin/bash
2  echo "enter a number"
3  read num
4  fact=1
5  while [ $num -gt 1 ]
6  do
7  fact=$((fact*num))
8  num=$((num - 1))
9  done
10 echo "factorial is ="$fact
```

input

```
enter a number
12
factorial is =479001600


...Program finished with exit code 0
Press ENTER to exit console.
```

```
C:\TURBOC3\BIN>TC
enter a string: ABDUL hasseeb
the length of the string is: 5
enter a string: haseeb
the length of the string is: 6
enter a string: _
```

```
[■]══════════════════ NONAME00.CPP ══════════════════1═[↕]
#include<stdio.h>
#include<string.h>
void main()
{
 char str[100];
 printf("enter a string: ");
 scanf("%s", str);

 int len = strlen(str);
 printf("the length of the string is: %d\n",len);
}_
```

`══ 11:2 ══`

```
┌[■]══════════════════════ NONAME00.CPP ═══════════════════1═[↕]┐
│#include<stdio.h>                                              ▲│
│int main() {                                                   ■│
│    int array[10] = {1,2,3,4,5,6,7,8,9,0,};                     │
│    int sum, loop;                                              │
│                                                                │
│                                                                │
│    sum = 0;                                                    │
│                                                                │
│                                                                │
│    for(loop = 9; loop >= 0; loop--) {                          │
│        sum = sum+array[loop];                                  │
│    }                                                           │
│                                                                │
│    printf("sum of array is %d.",sum);                          │
│    ▬                                                           │
│    return 0;                                                   │
│}                                                              ▼│
│                                                               ◄│
└─◄═══ 15:5 ═══◄□══════════════════════════════════════════════►┘
```

```
#include<stdio.h>
int main() {
    int array[10] = {1,2,3,4,5,6,7,8,9,0,};
    int sum, loop;


    sum = 0;


    for(loop = 9;
        sum = sum+
    }

    printf("sum of

    return 0;
}
```

```
┌──────────────── Compiling ────────────────┐
│                                            │
│  Main file: NONAME00.CPP                   │
│  Compiling: EDITOR → NONAME00.CPP          │
│                                            │
│                        Total     File      │
│      Lines compiled: 324       324         │
│           Warnings: 0          0           │
│             Errors: 0          0           │
│                                            │
│  Available memory: 1969K                   │
│  Success            :                      │
└────────────────────────────────────────────┘
```

15:5