

```
a=int(input("enter number:"))
b=int(input("enter number:"))
print("addition:", a+b)
print("subtraction:", a-b)
print("multiplication:", a*b)
print("division:", a/b)
print("modulus:", a%b)
print("float:", a//b)
print("exponential:", a**b)
```

```
enter number:4
enter number:5
addition: 9
subtraction: -1
multiplication: 20
division: 0.8
modulus: 4
float: 0
exponential: 1024
```

```
a=5>3
b=4>3
print("and:", a and b)
print("or:", a or b)
print("not:", not b)
```

```
and: True
or: True
not: False
```

```
m1=60
m2=70
m3=20
print(m1>=35)
print(m2>=35)
print(m3>=35)
```

```
True
True
False
```

```
a=10
b=20
print(a+b)
```



```
n=int(input(" Enter the marks:"))
if n<0 or n>100:
    print("invalid marks:")
elif n>=90:
    print("grade a")
elif n>=75:
    print("grade b")
elif n>=60:
    print("grade c")
elif n>=40:
    print("grade d")
else:
    print("fail")
```

Enter the marks:66  
grade c

```
a=0
b=1
c=1
if a==b and b==c and c==a:
    print("equilateral")
elif a==b!=c:
    print("isosceless")
elif a!=b!=c:
    print("scalene")
else:
    print("invalid")
```

invalid

```
a=int(input("enter salary"))
b=int(input("enter year of experience"))
if a<20000 and b>=2:
    print(a*10/100,a+a*10/100)
elif a>=20000 and b>=5:
    print(a*20/100,a+a*20/100)
else:
    print("no bonus")
```

enter salary50000  
enter year of experience8  
10000.0 60000.0

```
age= int(input("enter your age:"))
is3D=int(input("enter 1 for 3D movie, 0 for normal movie:"))
if age<13:
    price=150
elif age<=59:
    price=250
else:
    price=200
if is3D==1:
    price+=50
print("final ticket price:", price)
```

```
enter your age:50
enter 1 for 3D movie, 0 for normal movie:1
final ticket price: 300
```

```
a=int(input("enter percentage:"))
m=int(input("enter 1 if having a medical certificate else 0:"))
if a>=75 or(a>=60 and m==1):
    print("allowed")
else:
    print("not allowed")
```

```
enter percentage:90
enter 1 if having a medical certificate else 0:1
allowed
```

```
bill=int(input("enter bill:"))
isprime=int(input("prime number:"))
if bill>=5000:
    discount=bill*20/100
elif bill>=2000 or bill<=4999:
    discount=bill*10/100
else:
    discount=0
if isprime==1:
    discount+=bill*5/100
else:
    discount+=0
final_amount=bill-discount
print("final amount price:", final_amount)
```

```
enter bill:70
prime number:1
final amount price: 59.5
```

```
age=int(input("enter your age:"))
tp=int(input("enter tp:"))
if age>=60:
    print("eligible")
elif age>=18 and tp==1:
    print("eligible")
else:
    print("not eligible")
```

```
enter your age:70
enter tp:1
eligible
```

```
s=int(input("enter your salary:"))
c=int(input("enter your creditscore:"))
if(s>=30000 and c>=700):
    print("loan approved")
elif s>=50000:
    print("loan approved")
else:
    print("loan rejected")
```

```
enter your salary:60000
enter your creditscore:900
loan approved
```

```
dataUsed = float(input("Enter data used (in GB): "))
hasUnlimitedPlan = int(input("Unlimited plan? (1=yes, 0=no): "))
isRoaming = int(input("Roaming on? (1=yes, 0=no): "))

if isRoaming == 1:
    if dataUsed <= 2:
        print("Unlimited Data Available")
    else:
        print("Limited Data")
else:
    if dataUsed <= 2 or hasUnlimitedPlan == 1:
        print("Unlimited Data Available")
    else:
        print("Limited Data")
```

```
Enter data used (in GB): 50
Unlimited plan? (1=yes, 0=no): 1
Roaming on? (1=yes, 0=no): 1
Limited Data
```

```
averageRating = float(input("Enter average rating: "))
isEditorsChoice = int(input("Is editor's choice? (1 = Yes, 0 = No): "))

if isEditorsChoice == 1:
    print("Recommended")
elif averageRating >= 8.5:
    print("Excellent")
elif averageRating >= 6.0:
    print("Good")
else:
    print("Average")
```

```
Enter average rating: 4.5
Is editor's choice? (1 = Yes, 0 = No): 1
Recommended
```

```
n=int(input("enter the number:"))
i=1
while i<=n:
    print(i)
    i+=1
```

```
enter the number:6
1
2
3
4
5
6
```

```
n=int(input("enter the number:"))
Sum =0
i=1
while i<=n:
    Sum= Sum+i
    i+=1
    print(Sum)
```

```
enter the number:10
1
3
6
10
15
21
28
36
45
55
```

```
for i in range(1,10):
    print(i)
```

```
1
2
3
4
5
6
7
8
9
```

```
for i in range(3, 30,3):
    print(i)
```

```
3
6
9
12
15
18
21
24
27
```

```
for i in range(10,1,-1):
    print(i)
```

```
10
9
8
7
6
```

5  
4  
3  
2

```
n = 1234

while n > 0:
    print(n % 10, end="")
    n //= 10
```

4321

```
n=565
rev=0
while n>0:
    digit =n%10
    rev=rev*10+digit
    n//=10
    n==rev
print(rev)
```

565

```
def a(b, c):
    print("addition:", b+c)
a(2, 3)
```

addition: 5

```
def a(b):
    if b%2==0:
        print("even")
    else:
        print("odd")
a(2)
```

even

```
def a(b):
    print(b**2)
a(4)
```

16

```
def a(name, section, rollno):
    return(name, section, rollno)
    print("name", name)
    print("section", section)
    print("rollno",rollno)
a(name="mahitha",section="bsc",rollno=15)
```

```
('mahitha', 'bsc', 15)
```

```
def calculate(b, c):  
    return b+c, b-c  
b,c=calculate(4, 5)  
print(b, c)
```

```
9 -1
```

```
s="mahitha"  
for a in s:  
    print(a)
```

```
m  
a  
h  
i  
t  
h  
a
```

```
s="mahitha"  
for a in s:  
    print(a,end=" ")
```

[Show hidden output](#)

```
s="mahitha"  
print(max(s))
```

```
t
```

```
s="mahitha"  
print(s[::-1])
```

```
ahtiham
```

```
s="mahitha"  
print(s[1:3])
```

```
ah
```

```
s="mahitha"  
print(len(s))
```

```
7
```

```
s="mahitha"  
print(min(s))
```

```
a
```

```
s="mahitha"  
print(s.upper())
```

MAHITHA

```
s="mahitha"  
print(s.lower())
```

mahitha

```
s="mahitha"  
print(s.title())
```

Mahitha

```
s="mahitha"  
print(s.capitalize())
```

Mahitha

```
arr=[12,12,14,15,16]  
print(arr)
```

[12, 12, 14, 15, 16]