

```
#24/12/2025
#this is single line comment
print ("Hello world")
```

Hello world

```
#23/1/2026
x=356
sum=0
while x>0:
    sum+=x%10
    x=x//10

print(sum)
```

14

```
#23/1/2026
n=1234
rev=0
while n>0:
    r=n%10
    rev=(rev*10)+r
    n=n//10
print(rev)
```

4321

```
#23/1/2026
n=121
temp=n
rev=0
while n>0:
    r=n%10
    rev=(rev*10)+r
    n=n//10
if temp==rev:
    print("Palindrome")
else:
    print("Not a palindrome")
```

Palindrome

```
#23/1/2026
i=1
while i<=10:
    print(i)
    i+=1
```

1
2

```
3
4
5
6
7
8
9
10
```

```
#23/1/2026
i=2
while i<=10:
    print(i)
    i=i+2
```

```
2
4
6
8
10
```

```
#23/1/2026
for i in range(1,11):
    print(i)
```

```
1
2
3
4
5
6
7
8
9
10
```

```
#23/1/2026
for i in range (3,31,3):
    print(i)
```

```
3
6
9
12
15
18
21
24
27
30
```

```
#23/1/2026
for i in range(10,0,-1):
```

```
print(i)
```

```
10  
9  
8  
7  
6  
5  
4  
3  
2  
1
```

```
#23/1/2026  
x=356  
y=x//10  
print(y)
```

```
35
```

```
#23/1/2026  
x=3456  
count=0  
while x>0:  
    count+=1  
    x=x//10  
print(count)
```

```
4
```

```
#23/1/2026  
name="Pallavi"  
for p in name:  
    print(p)
```

```
P  
a  
l  
l  
a  
v  
i
```

```
#23/1/2026  
i=1  
sum=0  
while i<=10:  
    sum=sum+i  
    i+=1  
print(sum)
```

```
55
```

```
units = int(input("Units used: "))

if units <= 100:
    bill = units * 2
elif units <= 200:
    bill = (100 * 2) + (units - 100) * 3
else:
    bill = (100 * 2) + (100 * 3) + (units - 200) * 5

print("Bill Amount:", bill)
```

Units used: 150
Bill Amount: 350

```
age = int(input("Enter age: "))
is3D = int(input("3D movie? (1/0): "))

if age < 13:
    price = 150
elif age <= 59:
    price = 250
else:
    price = 200

if is3D == 1:
    price += 50

print("Ticket Price:", price)
```

Enter age: 20
3D movie? (1/0): 0
Ticket Price: 250

#29/12/25

```
X=int(input ("enter X value:"))
Y=int(input ("enter Y value:"))
print("Addition:",X+Y)
print("Subtraction:",X-Y)
print("Multiplication:",X*Y)
print("Division:",X/Y)
print("Floor Division:",X//Y)
print("Modulus:",X%Y)
print("Exponents:",X**Y)
```

enter X value:2
enter Y value:3
Addition: 5
Subtraction: -1
Multiplication: 6
Division: 0.6666666666666666
Floor Division: 0
Modulus: 2
Exponents: 8

#29/12/2025

```
a=int(input("Enter a:"))
b=int(input("Enter b:"))
c=int(input("Enter c:"))
d=int(input("Enter d:"))
if a>b and a>c and a>d:
    Print("a is big",a)
if a>b and a>c and a>d:
    Print("a is big",a)
if a>b and a>c and a>d:
    Print("a is big",a)
elif a>b and a>c and a>d:
    Print("a is big",a)
```

8/1/2026

```
a=int(input("Enter a marks"))
if a>0 and a<=100 :
    if a>=90:
        print("Grade A")
    elif a>=75:
        print("Grade B")
    elif a>=60:
        print("Grade C")
    elif a>=40:
        print("Grade D")
    else:
        print("Fail")
else:
    print("Invalid")
```

Enter a marks78
Grade B

9/1/2026

```
a=int(input("Enter side "))
b=int(input("Enter side"))
c=int(input("Enter side"))
if a+b>c and b+c>a and c+a>b:
    if a==b and b==c and c==a:
        print("Equilateral triangle")
    elif a==b!=c or a!=b==c:
        print("Isosceles triangle")
    elif a!=b!=c:
        print("Scalene triangle")
    else:
        print("Invalid triangle")
else:
    print("invalid")
```

Enter side 60
Enter side25
Enter side25
invalid

```
#9/1/2026
salary=int(input("Enter salary"))
experience=int(input("Enter years of experience"))
if salary<20000 and experience>=2:
    b=salary*0.1
    x=salary+b
    print(x)
elif salary>=20000 and experience>=5:
    c=salary*0.2
    y=salary+c
    print(y)
else:
    print("no bonus")
```

```
Enter salary22000
Enter years of experience7
26400.0
```

```
#9/1/2026
n=int(input("Enter a number"))
if n%3==0 and n%5!=0:
    print("special number")
else:
    print("not special number")
```

```
Enter a number11
not special number
```

```
#9/1/2026
h=int(input("Enter time:"))
if h>=0 and h<=24:
    if h>=5 and h<=11:
        print("Good morning")
    elif h>=12 and h<=16:
        print("Good afternoon")
    elif h>=17 and h<=20:
        print("Good Evening")
    else:
        print("Good Night")
else:
    print("Invalid")
```

```
Enter time:0
Good Night
```

```
#9/1/2026
a=int(input("Enter a: "))
b=int(input("Enter b: "))
c=int(input("Enter c: "))
if a>b and a<c or a>c and a<b:
    print("A is Middle number:", a)
elif b>c and b<a or b>a and b<c:
```

```
    print("B is Middle number:",b)
else:
    print("C is Middle number :", c)
```

```
Enter a: 13
Enter b:16
Enter c:14
C is Middle number : 14
```

```
#8/1/2026
a=10
print("Given number lies blw 10,20:",a<10 and a<20)
```

```
Given number lies blw 10,20: False
```

```
#8/1/2026X=int(input ("enter X value:"))
Y=int(input ("enter Y value:"))
print(X>Y and X<Y)
print(X>Y or X<Y)
```

```
enter X value:2
enter Y value:3
False
True
```

```
#8/1/2026
m1=int(input ("enter m1 marks:"))
m2=int(input ("enter m2 marks:"))
m3=int(input ("enter m3 marks:"))
t=m1+m2+m3
avg=t/3
print(m1>=35 and
      m2>=35 or
      m3>=35)
```

```
#8/1/2026
m1=int(input ("enter m1 marks:"))
m2=int(input ("enter m2 marks:"))
m3=int(input ("enter m3 marks:"))
t=m1+m2+m3
avg=t/3
print((m1>=35)+
      ( m2>=35 )+
      ( m3>=35)==2)
```

```
enter m1 marks:30
enter m2 marks:20
enter m3 marks:30
False
```

```
#9/1/2026
X=68
print(X>10 and (X%10)%2==0)
```

True

```
#24/12/2025
X={'name':'pallavi','age':20,'class':'Bsc'}
print(X)
```

{'name': 'pallavi', 'age': 20, 'class': 'Bsc'}

```
#24/12/2025
r=5
A=3.14*r**2
print('Area of circle:',A)
```

Area of circle: 78.5

```
#29/12/2025
X=3
Y=16
Z=X//Y
print(Z)
```

0

```
#24/12/2025
X=5
print("power of 5 is",X**2)
```

power of 5 is 25

```
#24/12/2025
m1=40
m2=30
m3=50
m4=45
t=(m1+m2+m3+m4)/4
print("Average of 4 subject marks:",t)
```

Average of 4 subject marks: 41.25

```
#29/12/2025
print(25>10 or 35>10)
```

True


```
#24/12/2025
P=1000
T=2
R=2
Si=P*T*R/100
print("Simple interest value...",Si)
```

Simple interest value... 40.0

```
#24/12/2025
X={'red','blue','green'}
print(X)
```

{'blue', 'red', 'green'}

```
#23/12/2025
Name="Pallavi"
print(Name)
```

Pallavi

```
#23/12/2025
Firstname='M'
Lastname='Pallavi'
Fullname=Firstname+Lastname
C=Firstname+" "+Lastname
print(Fullname)
print(Firstname,Lastname)
print(C)
```

MPallavi
M Pallavi
M Pallavi

```
#24/12/2025
a=b=c=1
print(a)
```

1

```
#23/12/2025
a=1
b=10.4
C=1+4j
print(type(a))
print(type(b))
print(type(C))
print(C)
```

```
<class 'int'>
<class 'float'>
<class 'complex'>
(1+4j)
```

```
#24/12/2025
a=10
b=20
print(a<b)
```

True

```
#24/12/2025
'''this is
Multiple line
Comment '''
print ("Hello")
```

Hello

```
#24/1/2026
def name():
    return ("Welcome to Python Programming")
print(name())
print(name())
```

Welcome to Python Programming
Welcome to Python Programming

```
#24/1/2026
def add(a,b):
    print( a+b)
add(10,20)
```

30

```
#24/1/2026
def check(x):
    if x%2==0:
        return ("Even")
    else:
        return ("Odd")
check(5)
```

'Odd'

```
#24/1/2026
def sqrt(x):
    return x*x
sqrt(5)
```

25

```
#24/1/2026
def details(name,age,group):
    return ("Name=",name), ("Age:",age),("Group:", group)
print(details("Pallavi",20,"B.sc"))
```

(('Name=', 'Pallavi'), ('Age:', 20), ('Group:', 'B.sc'))

```
#24/1/2026
def factorial(n):
    if n==0:
        return 1
    else:
        return n*factorial (n-1)
print(factorial(6))
```

720

```
#24/1/2026
def show():
    x=10#local
    print(x)
show ()
x=1#global
def display ():
    print(x)
display ()
```

10
1

```
#29/1/2026
name="Pallavi"
for char in name:
    print(char)
```

P
a
l
l
a
v
i

```
#29/1/2026
name="Pallavi"
for char in name:
    print(char,end="")
```

Pallavi

```
#29/1/2026
n="Pallavi"
print(n[1:6])
print(n[::-1])
print(n[-1])
print (n[1:])
print(max(n))
print(min(n))
print(len(n))
```

```
allav
ivallaP
Pallav
allavi
v
P
7
```

```
#29/1/2026
n="mandula pallavi"
print(max(n))
print(min(n))
print(len(n))
print(n.upper())
print(n.lower())
print(n.title())
print(n.capitalize())
```

```
v

15
MANDULA PALLAVI
mandula pallavi
Mandula Pallavi
Mandula pallavi
```

```
#29/1/2026
word=input("Enter word:")
if word==word[::-1]:
    print("Palindrome")
else:
    print("Not Palindrome")
```

```
Enter word:MOM
Palindrome
```

```
#29/1/2026
import array as arr
arr=array('i',[1,5,6,7,2])
print(arr)
```

```
array('i', [1, 5, 6, 7, 2])
```

```
#29/1/2026
print(arr[:2])
```

```
print(arr[::-1])
print(arr[::-2])
print(arr[2:])
print(arr[::-2])
arr[1]=25
print(arr)
```

```
array('i', [1, 5])
array('i', [2, 7, 6, 5, 1])
array('i', [1, 6, 2])
array('i', [2, 6, 1])
array('i', [1, 25, 6, 7, 2])
```

```
#29/1/2026
from array import array
array=array('i',[5,6,7,2,1])
print(type(array))
```

```
<class 'array.array'>
```

```
#1-15/1/2026
age = int(input("Enter age: "))
is3D = int(input("Enter 1 if your are watching 3D movie  else 0 : "))

if age < 13 and is3D == 1:
    price = 200
elif age < 13 :
    price = 150
elif age <= 59 and is3D == 1:
    price = 300
elif age <= 59 :
    price = 250
elif is3D == 0:
    price = 200
else:
    price = 250

print("Ticket Price:", price)
```

```
Enter age: 10
Enter 1 if your are watching 3D movie  else 0 : 0
Ticket Price: 150
```

```
#2-15/1/2026
attendance = int(input("Enter Attendance: "))
medical = int(input("Medical Certificate (1/0): "))

if attendance >= 75 or (attendance >= 60 and medical == 1):
    print("Allowed")
else:
    print("Not Allowed")
```

```
Enter Attendance: 80
Medical Certificate (1/0): 0
Allowed
```

```
#3-15/1/2026
bill = int(input("Enter Bill amount: "))
isPrime = int(input("Prime member (1/0): "))

discount = 0

if bill >= 5000 and isPrime == 1:
    discount = bill * 0.25
elif bill >= 5000:
    discount = bill * 0.2
elif bill >= 2000 and isPrime == 1:
    discount = bill * 0.15
elif bill >= 2000:
    discount = bill * 0.1
elif isPrime == 1:
    discount = bill * 0.05
else:
    discount = 0
```

```
finalAmount = bill - discount
print("Final Amount:", finalAmount)
```

```
Enter Bill amount: 4500
Prime member (1/0): 0
Final Amount: 4050.0
```

```
#4-15/1/2026
battery = int(input("Enter Battery %: "))
isCharging = int(input("Charging (1/0): "))

if isCharging == 1:
    print("Charging")
elif battery <= 20:
    print("Low Battery")
elif battery >= 21 and battery <= 80:
    print("Normal")
else:
    print("Full")
```

```
Enter Battery %: 80
Charging (1/0): 0
Normal
```

```
#5-15/1/2026
age = int(input("Enter Age: "))
testPassed = int(input("Test Passed (1/0): "))

if age >= 18 and (testPassed == 1 or age >= 60):
    print("Eligible")
else:
    print("Not Eligible")
```

```
Enter Age: 18
Test Passed (1/0): 1
Eligible
```

```
#6-15/1/2026
amount = int(input("Enter Order Amount: "))
isGold = int(input("Gold Member (1/0): "))
distance = int(input("Enter Distance (km): "))

if distance >= 10:
    print("Delivery Charged")
elif amount >= 500 or isGold == 1:
    print("Free Delivery")
else:
    print("Delivery Charged")
```

```
Enter Order Amount: 500
Gold Member (1/0): 1
Enter Distance (km): 15
Delivery Charged
```

```
#7-15/1/2026
salary = int(input("Enter Salary: "))
```

```
credit = int(input("Enter Credit Score: "))

if salary >= 50000 or (salary >= 30000 and credit >= 700):
    print("Loan Approved")
else:
    print("Loan Rejected")
```

Enter Salary: 30000
Enter Credit Score: 100
Loan Rejected

```
#8-15/1/2026
units = int(input("Enter No.of Units: "))

if units <= 100:
    bill = units * 2
elif units <= 200:
    bill = (100 * 2) + ((units - 100) * 3)
else:
    bill = (100 * 2) + (100 * 3) + ((units - 200) * 5)

print("Bill Amount:", bill)
```

Enter No.of Units: 100
Bill Amount: 200

```
#9-15/1/2026
marks = int(input("Enter Marks: "))
income = int(input("Enter Family income: "))
single = int(input("Single parent (1/0): "))

if marks >= 85:
    if income < 50000 or single == 1:
        print("Scholarship Granted")
    else:
        print("Not Eligible for Scholarship")
else:
    print("Not Eligible for Scholarship")
```

Enter Marks: 85
Enter Family income: 50000
Single parent (1/0): 0
Not Eligible for Scholarship

```
#10-15/1/2026
theory = int(input("Enter Theory marks: "))
practical = int(input("Enter Practical marks: "))

if theory + practical >= 100:
    print("Pass")
elif theory >= 40 and practical >= 40:
    print("Pass")
else:
    print("Fail")
```

Enter Theory marks: 90
Enter Practical marks: 30

Pass

```
#11-15/1/2026
days = int(input("Enter Days stayed: "))
weekend = int(input("Weekend (1/0): "))

if weekend == 1 and days > 3:
    bill = 4000 * days
    bill = bill - (bill * 0.15)
elif weekend == 1:
    bill = 4000 * days
elif days > 3:
    bill = 3000 * days
    bill = bill - (bill * 0.15)
else:
    bill = 3000 * days

print("Total Bill:", bill)
```

```
Enter Days stayed: 4
Weekend (1/0): 0
Total Bill: 10200.0
```

```
#12-15/1/2026
score = int(input("Enter Score: "))
isPremium = int(input("Premium (1/0): "))
usedCheat = int(input("Used Cheat (1/0): "))

if usedCheat == 1:
    print("Access Denied")
elif score >= 100 or isPremium == 1:
    print("Game Unlocked Next Level")
else:
    print("Access Denied ")
```

```
Enter Score: 100
Premium (1/0): 0
Used Cheat (1/0): 0
Game Unlocked Next Level
```

```
#13-15/1/2026
dataUsed = float(input("Enter Data Used (GB): "))
hasUnlimited = int(input("Unlimited Plan (1/0): "))
isRoaming = int(input("Roaming (1/0): "))

if isRoaming == 1:
    print("unlimited Data doesn't 0 work")
elif dataUsed <= 2 or hasUnlimited == 1:
    print("Unlimited Data")
else:
    print("Limited Data")
```

```
Enter Data Used (GB): 1
Unlimited Plan (1/0): 0
Roaming (1/0): 1
unlimited Data doesn't 0 work
```

```
#14-15/1/2026
idValid = int(input("ID Valid (1/0): "))
fingerprint = int(input("Fingerprint (1/0): "))
faceScan = int(input("Face Scan (1/0): "))
isHoliday = int(input("Holiday (1/0): "))

if isHoliday == 1:
    print("Entry Denied for everyone")
elif idValid == 1 and (fingerprint == 1 or faceScan == 1):
    print("Entry Allowed into Office")
else:
    print("Entry Denied")
```

```
ID Valid (1/0): 1
Fingerprint (1/0): 1
Face Scan (1/0): 1
Holiday (1/0): 1
Entry Denied for everyone
```

```
#15-15/1/2026
avg = float(input("Enter Average Rating: "))
editor = int(input("Editor's Choice (1/0): "))

if editor == 1:
    print("Recommended")
elif avg >= 8.5:
    print("Excellent")
elif avg >= 6.0 and avg<=8.4:
    print("Good")
else:
    print("Average")
```

```
Enter Average Rating: 5
Editor's Choice (1/0): 0
Average
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
for x in arr:
    print(x)
```

```
10
30
30
40
50
```

```
#29/1/2026
from array import array
arr=array('i',[10,20,30,40])
print(arr)
print(arr[0])
print(arr[-1])
print(type(arr))
print(arr[1:3])
```

```
array('i', [10, 20, 30, 40])
10
40
<class 'array.array'>
array('i', [20, 30])
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
for x in arr:
    arr[1]=25
    print(x)
```

```
10
25
30
40
50
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
arr.append(60)
print(arr)
```

```
array('i', [10, 30, 30, 40, 50, 60])
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
```

```
arr.remove(30)
print(arr)
```

```
array('i', [10, 30, 40, 50])
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
arr.pop()
print(arr)
```

```
array('i', [10, 30, 30, 40])
```

```
#29/1/2026
from array import array
arr=array('i',[10,30,30,40,50])
arr.insert(2,60)
print(arr)
```

```
array('i', [10, 30, 60, 30, 40, 50])
```

```
#29/1/2026
from array import array
arr=array('i',[10,20,30,40])
print(arr)
```

```
array('i', [10, 20, 30, 40])
```

```
#29/1/2026
from array import array

arr = array('i', [1, 2, 3, 4, 5])
count = 0

for i in arr:
    count += 1

print("Number of elements:", count)
```

```
Number of elements: 5
```

```
#29/1/2026
from array import array
arr = array('i',[1, 2, 3, 4, 5])
total = 0

for i in arr:
    total += i

print("Sum:", total)
```

```
Sum: 15
```

```
#29/1/2026
from array import array
total=0
arr = array('i',[10, 20, 30, 40, 50])

for ch in arr[::2]:
    total=total+ch
print("Sum of even index elements:", total)
```

Sum of even index elements: 90

```
#29/1/2026
from array import array
arr =array('i', [5, 2, 9, 1, 7])
largest = arr[0]

for i in arr:
    if i > largest:
        largest = i

print("Largest number:", largest)
```

Largest number: 9

```
#29/1/2026
from array import array
arr =array('i', [1, 2, 3, 4, 6])
even = 0
odd = 0

for i in arr:
    if i % 2 == 0:
        even += 1
    else:
        odd += 1

print("Even numbers:", even)
print("Odd numbers:", odd)
```

Even numbers: 3
Odd numbers: 2

```
#29/1/2026
from array import array
arr = array('i',[5, 2, 9, 11, 7])
smallest = arr[0]

for i in arr:
    if i < smallest:
        smallest = i

print("Smallest number:", smallest)
```

Smallest number: 2