

PYTHON BASIC PROGRAMS

1.Consider first name as "sathya" and last name as "Technology" now print fullname

```
first_name="satya"  
last_name="Technology"  
full_name=first_name+last_name  
print("full name :",full_name)
```

OUTPUT:

full name : satyaTechnology

2. Consider a value as 5 and b value as 7 now add a,b store into c, then display c

```
a=5  
b=7  
c=a+b  
print("c value is :",c)
```

OUTPUT:

c value is : 12

3. Write a program take a-5.6, b-10.5 and display sum.

```
a=5.6  
b=10.5  
sum=a+b  
print("sum of a and b is :",sum)
```

OUTPUT:

sum of a and b is : 16.1

4. Write a program to consider a=20, b=2.5 and perform subtraction.

```
a=20  
b=2.5  
subtraction=a-b
```

```
print('subtraction of a and b is :',subtraction)
```

OUTPUT:

subtraction of a and b is : 17.5

5. Consider Mr. Vishnu Annual Salary is 650000, Now calculate his Monthly Salary

```
anual_salary=650000
```

```
months=12
```

```
salary_per_month=anual_salary/months
```

```
print('salary_per_month is:',salary_per_month)
```

OUTPUT:

salary_per_month is: 54166.666666666664

#use round() function if you want only to values after point

6. Consider Mr. Avinash Monthly salary is 34500.0, Now calculate his annual Salary

```
monthly_salary=34500.0
```

```
total_months_in_year=12
```

```
anual_salary=monthly_salary*total_months_in_year
```

```
print('anual_salary is :',anual_salary)
```

OUTPUT:

anual_salary is : 414000.0

7. Ms Laxmi Opend swiggy observed that Pizza cost is 345.60, She Ordered 3 pizzas. W.a.p to alculate her bill amount. Swiggy added 20rs as service charge and 30rs as tip. So find total Bill Amount

```
pizza_cost=345.60
```

```
ordered=3
```

```
service_charge=20
```

```
tip=50
```

```
total_bill=(pizza_cost*ordered)+tip+service_charge
```

```
print('total bill is:',total_bill)
```

OUTPUT:

total bill is: 1106.8000000000002

8. Consider 3 subject marks as 92, 98, 99, now calculate total and avg marks

sub1=92

sub2=98

sub3=99

total=sub1+sub2+sub3

average=total/3

print("total is :",total)

print("average is:",average)

total is :289

OUTPUT:

average is: 96.33333333333333

9. Consider Celsius temperature is 32 degree now Convert to Fahrenheit.

celsius_temperature=32

fahrenheit=32+(celsius_temperature*9/5)

print("Fahrenheit is:",fahrenheit)

OUTPUT:

Fahrenheit is: 89.6

10. Consider Fahrenheit temperature is 102 degree now convert to Celsius.

fahrenheit=102

celsius_temperature=(fahrenheit-32)*5/9

print("Celsius_temperature is:",celsius_temperature)

OUTPUT:

Celsius_temperature is: 38.888888888888886

**11. Mr. Venkat deposited 500000 amount in bank for 5 years with rate of interest as 7.8%.
After 5 yea how much amount he will receive**

Note: Calculate interest amount and final amount, use simple interest formula

deposited=500000

```
years=5
rate_interest=7.8
interest_amount=deposited*rate_interest/100
print("interest amount for 1 year is:",interest_amount)
print("interest amount for 5 years is:",years*interest_amount)
amount=deposited+years*interest_amount
print("After 5 years ",amount,"amount he will receive")
```

OUTPUT:

```
interest amount for 1 year is: 39000.0
interest amount for 5 years is: 195000.0
After 5 years 695000.0 amount he will receive
```

Swapping: Interchange values is called as swapping.

12. W.a.p to perform swapping of 2 numbers by using 3rd variable

```
a=2
b=5
c=a
a=b
b=c
print("a value is:",a)
print("b value is:",b)
```

OUTPUT:

```
a value is: 5
b value is: 2
```

13. W.a.p to perform swapping of 2 numbers without using 3rd variable

```
a=20
b=30
a=a+b
b=a-b
```

```
a=a-b
print("a value is:",a)
print("b value is:",b)
```

OUTPUT:

```
a value is: 30
b value is: 20
```

14. W.a.p to perform swapping of 2 numbers without using 3rd variable and without using +,- operator

```
a=22
b=33
a,b=b,a
print("a value is:",a)
print("b value is:",b)
```

OUTPUT:

```
a value is: 33
b value is: 22
```

15. Miss Pooja Mansi started her journey from hyderabad to Vijayawada by car. While starting her journey she noticed that car Reading as 11236, after Reached Vijayawada again she noticed that her car Reading shows as 11494. Now w.a.p to find number of kilometers she travelled

```
start_reading=11236
end_reading=11494
total_travelled_distance=end_reading-start_reading
print("total_travelled_distance is :",total_travelled_distance)
```

OUTPUT:

```
total_travelled_distance is : 258
```

16. Mr Venkat Redd, and his Frineds(Vishnu, Avinash) went to Restaurant and placed order as 3 plates manchuriya and 2 plates Biryani. We gave tip as 20rs. Now they decided to share amount equally. W.a.p to display there sharing amount

Note: Manchuriya cost is 220/plate, Biryani cost is 360/plate

Manchuriya_cost=220

Biryani_cost=360

manchuriya=3

Biryani=2

tip=20

total_bill=(Manchuriya_cost*manchuriya)+(Biryani_cost*Biryani)+tip

print("total bill is:",total_bill)

share=total_bill/3

print("Each share is:",share)

OUTPUT:

Total bill is: 1400

Each share is: 466.6666666666667

17. Ms.Laxmi actual March Milk bill is 930.0, but on that month Milk boy kept 4 leaves, So W.a.p to calculate her march month milk bill

Actual_March_Milk_price=930.0

leaves=4

remaining_days_milk_bill=Actual_March_Milk_price*(30-4)/30

print("March month milk bill is :",remaining_days_milk_bill)

OUTPUT:

March month milk bill is :806.0

18. Miss Pooja Mansi attended 94 days out of 126 days. Now w.a.p to find attendance percentage

total_days=120

attended_days=96

attendance_percentage=attended_days/total_days*100

print("Attendance percentage is :",attendance_percentage)

OUTPUT:

Attendance percentage is: 80.0

19. In an Apartment they need 6 water tins per day. W.a.p to calculate August month bill. Each Water tin cost is Rs 20.

```
water_tins_per_day=6
tin_cost=20
august_days=31
total_august_bill=(water_tins_per_day*tin_cost)*august_days
print("Total august month bill is :",total_august_bill)
```

OUTPUT:

Total august month bill is:3720

20. One Liter Petrol cost is 108.96, Now how many liters of petrol comes for 300rs

```
Liter_Petrol_cost =108.96
money=300
liters=round(money/108.96,2)
print("Total liters for 300 is:",liters)
```

OUTPUT:

Total liters for 300 is :2.75

21. Mr.Sharma bought mango basket for 1150, then he sold for 1680, calculate his profit.

```
bought_mango_basket=1150
sold=1680
profit=sold-bought_mango_basket
print("Profit is:",profit)
```

OUTPUT:

Profit is:530

22. Consider Product cost is 200, gst is 20%. now find gst amount and final cost of product

```
product_cost=200
gst=20/100    #20% is equal to 20/100
```

```
gst_amount=product_cost*gst
final_cost=product_cost+gst_amount
print("Final cost of product is:",final_cost)
```

OUTPUT:

Final cost of product is: 240.0

23. Consider Pizza cost is 326.50, customer order for 3 pizzas, now calculate bill amount. Shop provides 20% discount on bill amount. So find discount amount and final Bill

```
Pizza_cost=326.50
customer_ordered=3
bill_amount=Pizza_cost*customer_ordered
discount=20/100
discount_amount=bill_amount*discount
print("Discount amount is",discount_amount)
final_Bill=bill_amount-discount_amount
print("Final bill is",final_Bill)
```

OUTPUT:

Discount amount is 195.9

Final bill is 783.6

24. Consider Employee Monthly Salary is 30000, Company reduced 12% as pf and 8% as tax. Then find final monthly salary

```
Employee_Monthly_Salary=30000
pf=12/100
tax=8/100
total_reduced=pf+tax
final_monthly_salary=Employee_Monthly_Salary-
(Employee_Monthly_Salary*total_reduced)
print("Final monthly salary is:",final_monthly_salary)
```

OUTPUT:

Final monthly salary is: 24000.0

25. Mr. Venkat Took 500000 loan from bank for 4 years with rate or interest as 11.4%, Now calculate interest amount, final amount and EMI

loan=500000

years=4

interest=11.4

interest_amount=loan*11.4/100

total_interest_amount=years*interest_amount

final_amount=loan+total_interest_amount

print("Final amount is:",final_amount)

EMI=final_amount/12

print("EMI is:",EMI)

OUTPUT:

Final amount is: 728000.0

EMI is: 60666.666666666664

26. W.a.p to find Electricity Bill Last month Reading is 2234, Current month Reading is 2456. now find no of units consumed, then calculate bill amount. Per unit 3.46, tax as 0.06 Per unit, and Service Charge is Rs 30

Last_month_Reading=2234

current_month_Reading=2456

units_consumed=current_month_Reading-Last_month_Reading

Per_unit_price=3.46

tax_Per_unit=0.06

Service_Charge=30

**total_bill=units_consumed * Per_unit_price+units_consumed *
tax_Per_unit+Service_Charge**

print(units_consumed," units total bill",total_bill)

OUTPUT:

222 units total bill 811.44

27. Miss Pooja Mansi Rent a car to go to vijayawada, then started her journey from hyderabad to Vijayawada by car. While starting her journey she noticed that car Reading as 11236. after Reached Vijayawada again she noticed that her car Reading shows as 11494. Now w.a.p to find number of kilometers she travelled. And find her Bill Amount.

Note: per km they charged Rs: 15 and For Total tollgate charge as Rs 200

```
start_car_Reading=11236
stop_car_Reading=11494
kilometers= stop_car_Reading-start_car_Reading
print("she travelled", kilometers," kilometers")
per_km_charge=15
tollgate_charge=200
Bill_Amount=kilometers*per_km_charge+200
print("bill amount is:",Bill_Amount)
```

OUTPUT:

```
she travelled 258 kilometers
bill amount is: 4070
```

28. W.a.p to read Emp id, Emp Name, Gender and Salary then display all details with annual salary

```
Emp_id=int(input("Emp_id :"))
Emp_Name=input("Emp_Name:")
Gender=input("Gender:")
Salary=eval(input("Salary:"))
print("Emp_id is:",Emp_id)
print("Emp_Name is:",Emp_Name)
print("Gender is:",Gender)
print("Salary is:",Salary)
```

29. Consider Biryani cost is 395.25, Read quantity from user then find Total Bill Amount

```
biryani_cost=395.25
quantity=eval(input())
bill=biryani_cost*quantity
```

```
print('total price is:',bill)
```

30. Read amount from user then display in dollars

```
rupees=eval(input())  
dollars=rupees/83  
print(rupees,"rupee equal to ",dollars,"dollars")
```

31. Read dollars from user then display in rupees

```
dollars=eval(input())  
rupees=dollars*83  
print(dollars,"dollars equal to ",rupees,"rupees")
```

32. From Hyderabad to Vijayawada General ticket cost is rs 460. Due to Festival session the ticket cost increased as 50% (actualcost+50%hike), now read no.of tickets and find Total Bill Amount.

```
Gen_tik_cost =460.  
cost_increased=50/100  
present_cost=Gen_tik_cost+(Gen_tik_cost*cost_increased)  
no_tickets=int(input('enter no of tickets:'))  
Bill=no_tickets*present_cost  
print('Total bill amount is',Bill)
```

OUTPUT:

Enter no of tickets:3

Total bill amount is 2070.0

33. Read Employee annual salary and hike percentage, then calculate annual salary after hike. And display new monthly salary

```
Emp_annual_sal=eval(input('enter anual salary:'))  
hike_per=eval(input('enter hike:'))  
annual_sal=Emp_annual_sal+(Emp_annual_sal*hike_per/100)  
print('anual salary is:',annual_sal)
```

```
monthly_sal=annual_sal/12
print('monthly salary is:',monthly_sal)
```

OUTPUT:

```
enter anual salary:2000
enter hike:20
anual salary is: 2400.0
monthly salary is: 200.0
```

34. Read Market value of a land, In general stamp duty is 5%, But due to new rules it changes as 7%. So how much Extra amount they have to pay according to new rules. Calculate old stamp duty amount and new stamp duty amount then display difference

```
land=eval(input("Enter land value:"))
general_stamp=5/100    #5% is equal to 5/100
new_stamp=7/100.
general=land+(land*general_stamp)
new=land+(land*new_stamp)
difference=abs(general-new)
print('difference is:',difference)
print( difference,"Extra amount they have to pay according to new rules")
```

OUTPUT:

```
Enter land value:2000
difference is: 40.0
40.0 Extra amount they have to pay according to new rules
```

35. Read Temperature in celsius then convert to Fahrenheit

```
celsius_temperature=eval(input())
fahrenheit=32+(celsius_temperature*9/5)
print('fahrenheit is:',fahrenheit)
```

36. Read Temperature in fahrenheit then convert to Celsius

```
fahrenheit=eval(input())
```

```
celsius_temperature=(fahrenheit-32)*5/9
print('celsius_temperature is:',celsius_temperature)
```

37. Read Mango cost per kg, then read quantity. Big Basket gives offer as 22% discount on Bill Amount. So find Total Bill Amount

```
mango_cost_per_kg=eval(input('enter cost per kg :'))
quantity=eval(input('enter quantity :'))
actual_bill=mango_cost_per_kg*quantity
offer=22/100
total_bill=actual_bill-(actual_bill*offer)
print('total bill is:',total_bill)
```

38. Mr Venkat Reddy Booked flight Ticket in Indian AirLines To Travel Hyderabad to Vijayawad. General ticket cost is 3450 and extra gst as 18%. but if he booked ticket in IndiGo ticket cost is 3200 and extra gst as 12%. so how much amount he saved if he booked ticket in IndiGo.

```
General_ticket_cost=3450
extra_gst=18/100    #18% equal to 18/100
general_ticket_price=General_ticket_cost+(General_ticket_cost*extra_gst)
IndiGo_ticket_cost=3200
indigo_extra_gst=12/100. #12% equal to 12/100
indigo_total_cost=IndiGo_ticket_cost+(IndiGo_ticket_cost*indigo_extra_gst)
saved=abs(general_ticket_price-indigo_total_cost)
print('Amount he saved if he booked ticket in IndiGo is:',saved)
```

OUTPUT:

Amount he saved if he booked ticket in IndiGo is: 487.0

39. Read kilometers then convert into meters

```
kilometer=eval(input())
meters=kilometer*1000
print(kilometer,"equal to",meters," meters")
```

40. Read hours then convert into days

```
hours=eval(input())
```

```
day_hours=24 #hours
```

```
days=round(hours/day_hours,1)
```

```
print(hours,"hours ie equal to ",days,"days")
```