

```
In [2]: print("the addition of {} and {} is {}".Format(10,20,30))
```

```
-----  
AttributeError                                Traceback (most recent call last)  
Cell In[2], line 1  
----> 1 print("the addition of {} and {} is {}".Format(10,20,30))  
  
AttributeError: 'str' object has no attribute 'Format'
```

```
In [3]: print("the addition of {} and {} is {}".format(10,20,30))
```

```
-----  
AttributeError                                Traceback (most recent call last)  
Cell In[3], line 1  
----> 1 print("the addition of {} and {} is {}".format(10,20,30))  
  
AttributeError: 'str' object has no attribute 'format'
```

```
In [4]: print("the addition of {} and {} is {}".Format(10,20,30))
```

```
Cell In[4], line 1  
    print("the addition of {} and {} is {}".Format(10,20,30))  
      ^  
SyntaxError: unterminated string literal (detected at line 1)
```

- Variables
- Data types
- Type casting
- print

```
In [6]: # Q1) WAP ask the user take 3 numbers find the average  
# the average of num1, num2 and num3 is avg using f string and format method  
# idea  
# n1=  
# n2=  
# n3=  
# avg=(n1+n2+n3)/3  
# print using format  
# print using f string  
  
n1=10  
n2=20  
n3=30  
avg=(10+20+30)/3  
print(f"The average of {n1},{n2} and {n3} is {avg}")  
print("The average of {},{} and {} is {}".format(n1,n2,n3,avg))
```

The average of 10,20 and 30 is 20.0
The average of 10,20 and 30 is 20.0

```
In [8]: (25+35+61)/3
```

```
Out[8]: 40.333333333333336
```

round

```
In [9]: round(40.5678)
# You did not provided any decimal
```

Out[9]: 41

```
In [19]: round(40.5678,1)
# 34.7 marks fail 35
# 34.765 fail 35
round(34.765,2)

# after point provide only 1 value : 34.765 === 34.8
# after point provide only 2 values" 34.77
```

Out[19]: 34.77

```
In [11]: round(40.5678,2)
```

Out[11]: 40.57

```
In [21]: round(41.63456789)
```

Out[21]: 42

```
In [22]: round(41.63456789,1) # 41.<6>
```

Out[22]: 41.6

```
In [23]: round(41.67456789,1)
```

Out[23]: 41.7

```
In [ ]: n1=10
n2=20
n3=30
avg=(10+20+30)/3
avg1=round(avg,2)
print(f"The average of {n1},{n2} and {n3} is {avg1}")
print("The average of {},{} and {} is {}".format(n1,n2,n3,avg1))
```

```
In [ ]: n1=10
n2=20
n3=30
avg=round((10+20+30)/3,2)
print(f"The average of {n1},{n2} and {n3} is {avg}")
print("The average of {},{} and {} is {}".format(n1,n2,n3,avg))
```

```
In [24]: avg=round((10+20+30)/3,2)
avg

avg=(10+20+30)/3
avg1=round(avg,2)
```

Out[24]: 20.0

In []: can we put `as round(40.34567,10)?`

```
In [30]: #Q2) WAP ask the user take height of the traingle
#          breadth of the traingle
# calculate the area of the right angle traingle
# Formula: 1/2*b*h

print("===== AREA OF RIGHT ANGLE TRAINGLE=====")
breadth=30
height=40
area=0.5*breadth*height
print(f"The area of a right angle traingle having {breadth},{height} is {area}")
print("The area of a right angle traingle having {},{} is {}".format(breadth,hei

#####
#Q3) Wap ask the user take the radius of circle
# calculate the area of the circle
# Formula: pi*r*r where pi=3.14
print("===== AREA OF Circle=====")
radius= 20
pi=3.14
area=pi*radius*radius
print(f"The area of circle having {radius} is {area}")
print("The area of a circle having {} is {}".format(radius,area))
#####
#Q4) wap ask the user take the length and breadth
# calculate area of the rectangle
# Formulae: length * breadth
print("===== AREA OF THE RECTANGLE=====")
length=30
breadth=40
area=length*breadth
print(f"The area of the rectangle having {breadth},{length} is {area}")
print("The area of the rectangle having {},{} is {}".format(breadth,length,area))
```

```
===== AREA OF RIGHT ANGLE TRAINGLE=====
The area of a right angle traingle having 30,40 is 600.0
The area of a right angle traingle having 30,40 is 600.0
===== AREA OF Circle=====
The area of circle having 20 is 1256.0
The area of a circle having 20 is 1256.0
===== AREA OF THE RECTANGLE=====
The area of the rectangle having 40,30 is 1200
The area of the rectangle having 40,30 is 1200
```

```
In [31]: #Q5) Wap ask the how much bill he wants to pay
#          how much tip percentage he wants to give
#          calculate the total bill amount

# bill amount =1000
# you want give 10% tip = 1000*10/100
# total bill= 1000+100=1100
bill_amount=1000
tip_percentage=10
tip_amount= bill_amount*tip_percentage/100
total_bill= bill_amount+tip_amount
print(f"The total bill is : {total_bill}")
```

The total bill is : 1100.0

```
In [ ]: # Q6)
# A story you and your dad
# He wants to knwo your marks
# He wants to know your percentage of marks

# son: Hey dad
# Dad: Hi beta
# Son: wahtsup dad
# Dad : i got to know that your exams results are out
# Son : yes dad
# Dad : Do you pass the exam
# Son : Ofcourse dad
# Dad: Tell me the percentage
# Son: You know maths , I will give the score cal per
# Dad: Okay
# Telugu : 91
# Hindi : 82
# English : 92
# Maths : 89
# Science : 90
# Social : 94
# Perc
# Print the per
```

```
In [35]: print("Son: Hey dad!")
print("Dad: Heyyyyy son!")
print("Son: Whatsupp!")
print("Dad: I heard that you results are out, did you pass?")
print("Son: Why won't I? I am your son!")
print("Dad: What's your score?")
print("Son: I'll tell you the marks you calculate the percentage")
print("Dad: Okay!")
Telugu = 91
Hindi = 82
English = 92
Maths = 89
Science = 90
Social =94
percentage = (Telugu+Hindi+English+Maths+Science+Social)/6
round_percentage=round(percentage,2)
print(f"Dad: You scored {round_percentage}%")
```

```
Son: Hey dad!
Dad: Heyyyyy son!
Son: Whatsupp!
Dad: I heard that you results are out, did you pass?
Son: Why won't I? I am your son!
Dad: What's your score?
Son: I'll tell you the marks you calculate the percentage
Dad: Okay!
Dad: You scored 89.67%
```

```
In [37]: #Q7)
# you went pub : bill 10k
# american guy
# you have only dollars
# pub will take only rupees
# You need to create a story between American guy and pub manager
```

```

# where you want to apply print
# where you want to take variables
# where you will do calculations

print("Guy: One tequila please.")
print("Bartender: Coming right up!")
print("Guy: That hits the spot, thanks!")
print("Bartender: Do you want anything else?")
print("Guy: No, thanks. Bill me.")
print("Bartender: That will be around...₹ 504/-")
bill=504
print("Guy: I don't have rupeesHow much in dollars?")
print("Bartender: we will accept only indian rupees")
print("Guy:How much in dollars?")
one_dollar_in_rupees=84
in_dollars=bill/one_dollar_in_rupees
print(f"Bartender: Around...$ {in_dollars}")
print("Guy: Here you go.")

```

Guy: One tequila please.
 Bartender: Coming right up!
 Guy: That hits the spot, thanks!
 Bartender: Do you want anything else?
 Guy: No, thanks. Bill me.
 Bartender: That will be around...₹ 504/-
 Guy: I don't have rupeesHow much in dollars?
 Bartender: we will accept only indian rupees
 Guy:How much in dollars?
 Bartender: Around...\$ 6.0
 Guy: Here you go.

```

In [ ]: print("Pub mang:your bill is 10k rupees")
        print("Guy: ok! i have only dollars")
        print("Pub mang: Sorry sir we accept only rupees")
        print("Guy: Pls take my dollars and accept")
        print("Pub mang:sorry sir u can visit exchange center and give me rupees")
        print("Guy :ok where it is??")
        print("pub mang: it is opp to another road")
        amnt_doll=10000/80
        print(f"Guy:ur amount in dollar is {amnt_doll}")
        print("Pub mang: Thank u sir!!")
        # variables also not mentioned

```

```

In [38]: TotalBillInRupees = 10000
        USDToINRConversionRate = 80
        TotalBillInUSD=TotalBillInRupees/USDToINRConversionRate
        print('American Customer: What is the bill')
        print(f'Hyderabad Hotel manager: Total bill is {TotalBillInRupees}')
        print('American Customer: I can only pay in USD')
        print('Hyderabad Hotel manager: Okay pay in USD')
        print('Hyderabad Hotel manager: USD to INR conversion rate is 80')
        print(f'Hyderabad Hotel manager: Total bill in USD:{TotalBillInUSD}')

```

American Customer: What is the bill
 Hyderabad Hotel manager: Total bill is 10000
 American Customer: I can only pay in USD
 Hyderabad Hotel manager: Okay pay in USD
 Hyderabad Hotel manager: USD to INR conversion rate is 80
 Hyderabad Hotel manager: Total bill in USD:125.0

```
In [39]: 10e-1 # 10/10
```

```
Out[39]: 1.0
```

```
In [40]: 10e-3 # 10/1000 = 0.01
```

```
Out[40]: 0.01
```

```
In [41]: 10e-6
```

```
Out[41]: 1e-05
```

```
In [42]: 12***3
```

```
Cell In[42], line 1
    12***3
      ^
SyntaxError: invalid syntax
```

```
In [44]: 12e-3 # 12*1000 12/1000
```

```
Out[44]: 0.012
```

```
In [ ]: e3= 10^3
```