WAP to add two numbers

In [1]:
```
number1=100
number2=200
add=number1+number2
print("the addition of {} and {} is {}".format(number1,number2,add))
```

```
the addition of 100 and 200 is 300
```

In [ ]:
```
## Wap ask the user enter a number by using keyboard
```

input

In [4]:
```
input()  # input from the keyboard
```

```
100
```

Out[4]:
```
'100'
```

In [6]:
```
input("enter a number:")
```

```
enter a number:100
```

Out[6]:
```
'100'
```

In [7]:
```
input("enter your name:")
```

```
enter your name:python
```

Out[7]:
```
'python'
```

In [8]:
```
'100'+'200'
```

Out[8]:
```
'100200'
```

key board will give string format only

In [9]:
```
number1=input("enter a number1:") # step-1: it will ask the number1='100'
number2=input("enter a number2:") # step-2: it will ask the number2='200'
add=number1+number2               # '100'+'200'='100200'
print("the addition of {} and {} is {}".format(number1,number2,add))
```

```
enter a number1:100
enter a number2:200
the addition of 100 and 200 is 100200
```

In [ ]:
```
a='100'
int(a)
```

In [10]:
```
number1=input("enter a number1:") # step-1: it will ask the number1='100'
number2=input("enter a number2:") # step-2: it will ask the number2='200'
add=int(number1)+int(number2)               # int('100')+int('200')=100+200
print("the addition of {} and {} is {}".format(number1,number2,add))
```

```
enter a number1:100
enter a number2:200
the addition of 100 and 200 is 300
```

In [ ]:
```
# ----------------------case-1:---------------------------------
number1=100   # manually we provided value 100
number2=200   # manually we provided value 200
add=number1+number2 # 100+200 =300
print("the addition of {} and {} is {}".format(number1,number2,add))

#------------------ case-2-------------------------------------
number1=input("enter a number1:") # step-1: it will ask the number1='100'
number2=input("enter a number2:") # step-2: it will ask the number2='200'
add=number1+number2                # '100'+'200'='100200'
print("the addition of {} and {} is {}".format(number1,number2,add))

#---------------- case-3(type casting)-----------------------------------
number1=input("enter a number1:") # step-1: it will ask the number1='100'
number2=input("enter a number2:") # step-2: it will ask the number2='200'
add=int(number1)+int(number2)               # int('100')+int('200')=100+200
print("the addition of {} and {} is {}".format(number1,number2,add))
```

In [11]:
```
#---------------- case-4(type casting)-----------------------------------
number1=int(input("enter a number1:")) # step-1: it will ask the number1=in
number2=int(input("enter a number2:")) # step-2: it will ask the number2=in
add=number1+number2                # 100+200=300
print("the addition of {} and {} is {}".format(number1,number2,add))
```

```
enter a number1:100
enter a number2:200
the addition of 100 and 200 is 300
```

In [1]:
```
number1=100.5   # type = float
number2=200   # type= integer
add=number1+number2 # 100.5+200 =300.5
print("the addition of {} and {} is {}".format(number1,number2,add))
```

```
the addition of 100.5 and 200 is 300.5
```

In [4]:
```
number1=float(input("enter a number1:"))
number1
```

```
enter a number1:100.5
```

Out[4]:
```
100.5
```

In [5]:
```
number2=int(input("enter a number1:"))
number2
```

```
enter a number1:100.5

---------------------------------------------------------------------------
-
ValueError                                Traceback (most recent call las
t)
Cell In[5], line 1
----> 1 number2=int(input("enter a number1:"))
      2 number2

ValueError: invalid literal for int() with base 10: '100.5'
```

In [8]:
```
float('100.5555')
```

Out[8]:
```
100.5555
```

In [22]:
```
n1=int(input("enter n1:")) # this will fail if we do not provide integer va
n2=float(input("enter n2:"))
n1+n2

# we need to keep in mind
# always if i want to provide integer value type cast: int
#        if i want to provide float value type cast: float
#        if i provide by mistake int('100.5') ===== error
#        to aviod this we go for eval concept
```

```
enter n1:100.5

---------------------------------------------------------------------------
-
ValueError                                Traceback (most recent call las
t)
Cell In[22], line 1
----> 1 n1=int(input("enter n1:"))
      2 n2=float(input("enter n2:"))
      3 n1+n2

ValueError: invalid literal for int() with base 10: '100.5'
```

eval

evaluate

In [23]:
```
n1=eval(input("enter n1:"))
n2=eval(input("enter n2:"))
print("the addition of {} and {} is {}".format(n1,n2,n1+n2))
```

```
enter n1:100.5
enter n2:100
the addition of 100.5 and 100 is 200.5
```

In [24]:
```
n1=input("enter n1:")  # step-1: n1='100.5'
n2=input("enter n2:")  # step-2: n2='200'
print("the addition of {} and {} is {}".format(n1,n2,eval(n1)+eval(n2)))
```

```
enter n1:100.5
enter n2:200
the addition of 100.5 and 200 is 300.5
```

In [ ]:
```
n1=input("enter n1:") #n1='100.5'
n2=input("enter n2:") #n2='200'
eval(n1+n2) # ('100.5'+'200'='100.5200')====>
eval(n1)+eval(n2)# eval('100.5')+eval('200')
                 #  100.5+200=300.5
```

In [25]:
```
n1=input("enter n1:") #n1='100.5'
n2=input("enter n2:") #n2='200'
eval(n1+n2)
```

```
enter n1:100
enter n2:200
```

Out[25]:
```
100200
```

In [26]:
```
n1=input("enter n1:") #n1='100.5'
n2=input("enter n2:") #n2='200'
eval(n1)+eval(n2)
```

```
enter n1:100
enter n2:200
```

Out[26]:
```
300
```

In [ ]:
```
# wap ask the user enter two numbers
# n1= from user 100
# n2= from keyboard 200
# the addition of 100 and 200 is 300
# the subtraction of 100 and 200 is -100
# the multiplication of 100 and 200 is 2000
```

In [31]:
```
num1=eval(input("enter n1:"))  # step-1:  int('100.5')  ===== error
num2=eval(input("enter n2:"))
ans= num1+num2
sub = num1-num2
mul= num1*num2
print("the addition of {}  and  {} is : {}".format(num1,num2,ans))
print("the subraction of {}  and  {} is : {}".format(num1,num2,sub))
print("the multiplication of {}  and  {} is : {}".format(num1,num2,mul))
```

```
enter n1:100
enter n2:200.5
the addition of 100  and  200.5 is : 300.5
the subraction of 100  and  200.5 is : -100.5
the multiplication of 100  and  200.5 is : 20050.0
```

In [ ]:
```
ok, float literals not accepting =====> when you try to convert into intege
```

In [ ]:
```
#WAP ask the key board enter 3 numbers
# and find the average
# if a,b,c are three numbers then average is (a+b+c)/3
```

In [32]:
```
sum(1,2,3)
```

```
---------------------------------------------------------------------------
-
TypeError                                 Traceback (most recent call las
t)
Cell In[32], line 1
----> 1 sum(1,2,3)

TypeError: sum() takes at most 2 arguments (3 given)
```

In [38]:
```
n1 = eval(input("enter first number:"))
n2 = eval(input("enter second number:"))
n3 = eval(input("enter third number:"))
average=(n1+n2+n3)/3
final_avg=round(average,2)
print("the original value before round off:",average)
print("the average of {},{} and {} is {}".format(n1,n2,n3,final_avg))
```

```
enter first number:2
enter second number:3
enter third number:5
the original value before round off: 3.3333333333333335
the average of 2,3 and 5 is 3.33
```

In [ ]:
```
12/2  # division
12%2  # modulus
12//2 # floor division
```

division

- will provide normal division values

In [45]:
```
12/5  # why 2.4
```

Out[45]:
```
2.4
```

modulus

- it will provide reminder

In [46]:
```
12%5  # why 2
```

Out[46]:
```
2
```

floor division:

- qutioent

In [47]:
```
12//5 # why 2
```

Out[47]:
```
2
```

In [48]:
```
# WAP ask the user to enter
# bill amount
bill_amount=eval(input("enter the bill:"))
# tip amount
tip_amount=eval(input("enter the tip:"))
# total amount
total_amount=bill_amount+tip_amount
print("The total amount is:",total_amount)
```

```
enter the bill:1000
enter the tip:100
The total amount is: 1100
```

In [49]:
```
# Wap ask the user enter
# bill amount   1000
# tip percentage on the bill (10% tip on the bill amount)
# how much percentage of tip want to give:10
# total amount=?

bill_amount=eval(input("enter bill amount:"))
tip_per=eval(input("enter tip percentage:"))
tip_amount=(bill_amount*tip_per)/100
total=bill_amount+tip_amount
print("total bill is:",total)
```

```
enter bill amount:1000
enter tip percentage:20
total bill is: 1200.0
```

In [52]:
```
# WAP ask the user enter Dollars
# input: how many dollars you want to pay : 100
# print('no dollars are not accepted')
# print("then what will accepted")
# print("only indian ruppes ")
# input: one dollar equal to how many ruppes : 80
# then total amount to pay: 100*80

n1 = eval(input("How many dollars you want to pay"))
print('Manger: No dollars are not accepted')
print('Rashaad: Then what will accepted')
print('Manager: Only indian rupees')
n2 = eval(input("one dollar equal to how many indian rupees"))
amount=n1*n2
print("The total amount to pay {}".format(amount))
print("Manager: Thank you Rashaad")
```

```
How many dollars you want to pay100
Manger: No dollars are not accepted
Rashaad: Then what will accepted
Manager: Only indian rupees
one dollar equal to how many indian rupees80
The total amount to pay 8000
Manager: Thank you Rashaad
```

In [ ]: