Rename notebook Rename notebook Star Star/unstar notebook in Google Drive File
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Open settings  Code Insert code cell below Ctrl+M B
Text Add text cell Toggle header visibility  Notebook  ### Accept input from user and store it in variable and print the value
<pre>a=int(input("enter the value")) print(a) enter the value10 10 Code Text</pre>
<pre>## Use of print statements and use of (.format )for printing different data types tickets=10 movie="RRR" cost=2000 d="i want {} tickets for {} movie at {} rupees" print(d.format(tickets, movie, cost))</pre>
<pre>i want 10 tickets for RRR movie at 2000 rupees  ## Take 2 numbers as user input and add, multiply, divide, subtract, remainder and print the output a=int(input("enter the value")) b=int(input("enter the value")) add=a+b</pre>
<pre>print(add) multiply=a*b print(multiply) divide=a/b print(divide) subract=a-b print(subract)</pre>
rem=a%b print(rem)  enter the value15 enter the value5 20 75 3.0 10
## Take 2 numbers as user input and add, multiply, divide, subtract, remainder and print the output on floating point input  a=float(input("enter the value"))  b=float(input("enter the value"))  add=a+b  print(add)
<pre>multiply=a*b print(multiply) divide=a/b print(divide) subract=a-b print(subract) rem=a%b</pre>
enter the value15.25 enter the value5.06 20.31 77.1649999999999 3.013833992094862 10.190000000000001 0.070000000000000117
Code Text  ## x Conversion of one unit to another (such as hours to minutes, miles to km and etc)  x=int(input("enter the value"))
<pre>## Usage of mathematical functions in python like math.ceil, floor, fabs, fmod, trunc, pow, sqrt etc. import math my_int=4.5467 print(math.ceil(my_int)) print(math.floor(my_int)) print(math.fabs(my_int)) print(math.fabs(my_int)) print(math.fabs(my_int))</pre>
<pre>print(math.fmod(4.5467, 5.2165)) print(math.trunc(my_int)) print(math.pow(4.5467, 5.2165)) print(math.sqrt(my_int))  5 4 4.5467 4.5467</pre>
4.5467 4 2696.9490793468362 2.132299228532431  ## Building a mathematical calculator that can perform operations according to user input. Use decision making statement def add(x, y):     return x + y
<pre>def subtract(x, y):     return x - y def multiply(x, y):     return x * y def divide(x, y):     return x / y print("Select operation.")</pre>
<pre>print("1.Add") print("2.Subtract") print("3.Multiply") print("4.Divide")  while True:     choice = input("Enter choice(1/2/3/4): ")</pre>
<pre>if choice in ('1', '2', '3', '4'):     num1 = float(input("Enter first number: "))     num2 = float(input("Enter second number: "))     if choice == '1':         print(num1, "+", num2, "=", add(num1, num2))     elif choice == '2':         print(num1, "-", num2, "=", subtract(num1, num2))</pre>
<pre>elif choice == '3':     print(num1, "*", num2, "=", multiply(num1, num2)) elif choice == '4':     print(num1, "/", num2, "=", divide(num1, num2)) next_calculation = input("Let's do next calculation? (yes/no): ") if next_calculation == "no":     break</pre>
else:     print("Invalid Input")  Select operation. 1.Add 2.Subtract 3.Multiply 4.Divide
Enter choice(1/2/3/4): 2 Enter first number: 55 Enter second number: 25 55.0 - 25.0 = 30.0 Let's do next calculation? (yes/no): yes Enter choice(1/2/3/4): 3 Enter first number: 25 Enter second number: 5 Enter first number: 5 Enter second number: 5
<pre>Let's do next calculation? (yes/no): no  Code Text  ## Accepting 5 different subject marks from user and displaying the grade of the student. a=int(input("enter the marks of subject1 ")) b=int(input("enter the marks of subject2 "))</pre>
<pre>c=int(input("enter the marks of subject3 ")) d=int(input("enter the marks of subject4 ")) e=int(input("enter the marks of subject5 ")) avg=(a+b+c+d+e)/5 if avg&gt;90:     print("0 grade") elif 80<avg<90: grade")<="" pre="" print("un=""></avg<90:></pre>
<pre>print("A grade") elif 70<avg<80: 50<avg<60:="" 60<avg<70:="" elif="" else:<="" grade")="" pre="" print("b="" print("c="" print("pass")=""></avg<80:></pre>
print("Fail")  enter the marks of subject1 50 enter the marks of subject2 90 enter the marks of subject3 40 enter the marks of subject4 60 enter the marks of subject5 80 C grade
<pre>## Conversion of one unit to another (such as hours to minutes, miles to km and etc) a=float(input("enter hours")) print("minutes are= ",a*60) b=float(input("enter miles")) print("km are= ",b*1.6)</pre>
enter hours5 minutes are= 300.0 enter miles5 km are= 8.0  ## Printing all even numbers, odd numbers, count of even numbers, count of odd numbers within a given range.  n=int(input("enter range ")) c=0
<pre>for i in range(1, n+1):     if i%2==0:         c+=1         print(i)  print("even count is ",c)</pre>
<pre>d=0 for i in range(1, n+1):     if i%2!=0:         d+=1         print(i)  print("odd count is ", d)</pre>
enter range 10 2 4 6 8 10 even count is 5
3 5 7 9 odd count is 5  #Compute the factorial of a given number. n=int(input("enter a number "))
<pre>fac=1 for i in range(1, n+1):     fac=fac*i  print(fac) enter a number 5 120</pre>
<pre>## Compute GCD of two given a=int(input("enter a number")) b=int(input("enter a number")) k=a if a<b a%k="0" and="" b="" b%k="=0:&lt;/pre" else="" if="" true:="" while=""></b></pre>
break k -=1 print(k)  enter a number5 enter a number6 1
Code Text  ## Check whether the given input is palindrome return s==s[::-1]  s=input("enter the value")
<pre>ans=isPalindrome(s)  if ans:     print("Yes") else: def isPalindrome(s):     print("No")</pre>
enter the value1020310\ No  Code Text  ## Check whether the given input is strong number sum=0
<pre>num=int(input("Enter a number:")) temp=num while(num):     i=1     fact=1     rem=num%10     while(i&lt;=rem):     fact=fact*i</pre>
<pre>i=i+1 sum=sum+fact num=num//10 if(sum==temp):    print("Given number is a strong number") else:</pre>
Enter a number:52123 Given number is not a strong number  Code Text  ## Check whether the given input is perfect number  sum1 = 0
<pre>sum1 = 0 for i in range(1, n):     if(n % i == 0):         sum1 = sum1 + i if (sum1 == n):     print("The number is a Perfect number!") else: n = int(input("Enter any number: "))</pre>
<pre>n = int(input("Enter any number: "))     print("The number is not a Perfect number!")  Enter any number: 6 The number is a Perfect number!  Code Text</pre>
Enter the principle amount:100000 Enter the rate:2 Enter the number of years:3 106120.8  Code Text

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