This notebook is open with private outputs. Outputs will not be saved. You can disable this in Notebook settings Deen notebook settings Rename notebook Rename notebook Star
Star/unstar notebook in Google Drive File Edit View
Insert Runtime Tools
Help All changes saved Comment Open comments pane Share
Share notebook 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 a=int(input("Enter the value")) print(a)
Use of print statements and use of (.format)for printing different data types. price=150 quantity=3
<pre>item=1 name="Thumbsup" myorder="I bought {3} with {0} having {1} and purchased {2}" print(myorder.format(price, quantity, item, name))</pre> <pre>I bought Thumbsup with 150 having 3 and purchased 1</pre>
<pre>import builtins # Take 2 numbers as user input and add, multiply, divide, subtract, remainder and print the output using int a=int(input("Enter the value")) b=int(input("Enter the value"))</pre>
add=a+b print(add) subtract=a-b print(subtract) multiply=a*b print(multiply) divide=a/b
<pre>print(divide) rem=a%b print(rem) Enter the value 67 Enter the value 89 156</pre>
-22 5963 0.7528089887640449 67 # Take 2 numbers as user input and add, multiply, divide, subtract, remainder and print the output using float
<pre>a=float(input("Enter the value")) b=float(input("Enter the value")) add=a+b print(add) subtract=a-b print(subtract)</pre>
<pre>multiply=a*b print(multiply) divide=a/b print(divide) rem=a%b print(rem)</pre>
Enter the value 88 Enter the value 66 154.0 22.0 5808.0 1.33333333333333333333333333333333333
<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 hours5.0 minutes are= 300.0 enter miles6.0 km are= 9.6000000000000000000000000000000000000
<pre># Usage of mathematical functions in python like math.ceil, floor, fabs, fmod, trunc, pow, sqrt etc. import math my_int=4.5678 print(math.ceil(my_int)) my_int=4.5678 print(math.floor(my_int))</pre>
<pre>print(math.floor(my_int)) my_int=4.5678 print(math.fabs(my_int)) print(math.fmod(4.5678, 7.8976)) my_int=4.5678 print(math.trunc(my_int)) nrint(math.pow(4.5678, 7.8976))</pre>
<pre>print(math.pow(4.5678, 7.8976)) my_int=4.5678 print(math.sqrt(my_int))</pre> 5 4 4 5679
4.5678 4.5678 4 162219.3423504213 2.1372412124044398 # Building a mathematical calculator that can perform operations according to user input. Use decision making statement.
<pre># This function adds two numbers def add(x, y): return x + y # This function subtracts two numbers def subtract(x, y):</pre>
<pre>return x - y # This function multiplies two numbers def multiply(x, y): return x * y # This function divides two numbers</pre>
<pre>def divide(x, y): return x / y print("Select operation.") print("1.Add")</pre>
<pre>print("2.Subtract") print("3.Multiply") print("4.Divide") while True: # take input from the user</pre>
<pre>choice = input("Enter choice(1/2/3/4): ") # check if choice is one of the four options if choice in ('1', '2', '3', '4'): num1 = float(input("Enter first number: ")) num2 = float(input("Enter second number: "))</pre>
<pre>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))</pre>
<pre># check if user wants another calculation # break the while loop if answer is no 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): 4 Invalid Input Enter choice(1/2/3/4): 4 Enter first number: 67 Enter second number: 78 67.0 / 78.0 = 0.8589743589743589 Let's do next calculation? (yes/no): No Enter choice(1/2/3/4): 4
Invalid Input Enter choice(1/2/3/4): 4 Enter choice(1/2/3/4): 4 Enter first number: 67 Enter second number: 89 67.0 / 89.0 = 0.7528089887640449 Let's do next calculation? (yes/no): no
<pre># Accepting 5 different subject marks from user and displaying the grade of the student a=int(input("Enter the cse marks")) b=int(input("Enter the maths marks")) c=int(input("Enter the english marks")) d=int(input("Enter the chemistry marks")) e=int(input("Enter the physics marks"))</pre>
<pre>average=(a+b+c+d+e)/5 print(average) if average>90: print("O grade")</pre>
<pre>elif 80<average<90: 70<average<80:="" elif="" grade")="" grade")<="" pre="" print("a="" print("b=""></average<90:></pre>
elif 60 <average<70: 50<average<60:<="" elif="" grade")="" print("c="" td=""></average<70:>
<pre>print("Pass") else: print("Fail")</pre>
Enter the cse marks 89
Enter the maths marks 54 Enter the english marks 67 Enter the chemistry marks 32 Enter the physics marks 99 68.2 C grade
<pre># 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 for i in range(1,n+1): if i%2==0: C+=1</pre>
<pre>print(i) print("even count is ",c) d=0 for i in range(1,n+1): if invalue.</pre>
<pre>if i%2!=0: d+=1 print(i) print("odd count is ",d)</pre>
enter range 20 2 4 6 8 10 12 14
16 18 20 even count is 10 1 3 5
9 11 13 15 17 19 odd count is 10
<pre># Compute the factorial of a given number. n=int(input("enter a number ")) fac=1 for i in range(1, n+1): fac=fac*i</pre>
<pre>print(fac) enter a number 6 720</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:</pre" else="" if="" true:="" while=""></pre>
<pre>break k -=1 print(k) enter a number60 enter a number20</pre>
Code Text # Check whether the given input is palindrome def isPalindrome(s):
<pre>return s==s[::-1] s=input("enter the value") ans=isPalindrome(s) if ans: print("Yes") else: print("No")</pre>
enter the value1002001 Yes Code Text #Check whether the given input is strong number
<pre>sum=0 num=int(input("Enter a number:")) temp=num while(num): i=1 fact=1</pre>
<pre>rem=num%10 while(i<=rem): fact=fact*i i=i+1 sum=sum+fact num=num//10</pre>
<pre>if(sum==temp): print("Given number is a strong number") else: print("Given number is not a strong number") Enter a number:2006 Given number is not a strong number</pre>
Code Text ##Check whether the given input is perfect number n = int(input("Enter any number: ")) sum1 = 0 for i in range(1, n):
<pre>if(n % i == 0): sum1 = sum1 + i if (sum1 == n): print("The number is a Perfect number!") else: print("The number is not a Perfect number!")</pre>
Enter any number: 275 The number is not a Perfect number! Code Text
Enter the principle amount:100200 Enter the rate:1 Enter the number of years:3 103236.1602