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#!/usr/bin/env python
# coding: utf-8
# In[1]:
#day 4
#list
a=[7,'5',7.6]
print(type(a))
a.append(100)
a.insert(1,50)
a.extend([1,2])
a.extend([1,2])
a.pop()
a.remove(7.6)
# a.clear()
print(a.index(50))
print(a.count(7))
# a.sort() for ascending
# a.sort(-1) for decending '
# a.count(7)
#a.copy()
print(a.reverse())
print(a)
# In[40]:
num=123
digit=0
rev=0
for i in range(1,4):
         digit=num%10
rev=(rev*10)+digit
num=num//10
print(rev)
# In[46]:
num=123
digit=0
sum=0
for i in range(1,4):
         digit=num%10
sum=sum+digit
num=num//10
print(sum)
# In[50]:
def factorial(n):
    if n==1 or n== 0:
        return 1
    else:
        return n*factorial(n-1)
print(factorial(5))
 # In[55]:
def fibonacci(n):
         a=0
b=1
b=1
count=0
while count<n:
    print(a,end=" ")
    temp=a+b
    a=b
    b=temp
    count+=1
fibonacci(5)</pre>
 # In[71]:
oddsum=0
oddsum=0
for i in range(1,6):
    if i%2!=0:
        oddsum=oddsum+i
    else:
evensum=evensum+i
print(oddsum)
print(evensum)
# In[4]:
for num in range(1,11):
    if num>1:
        for i in range(2,num):
            if num%i==0:
                                break
                 else:
                          print(num)
 # In[9]:
 two=0
 three=0
 for i in range(1,11):
    two=two+2*i
    three=three+3*i
avg=(two+three)/20
print(avg)
# In[18]:
 seven=0
for i in range(1,11):
    two=2*i
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seven=7*i
    avg=(two+seven)//2
    print("Avg of 2 and 7 tables =",avg)

# In[41]:

lst=[4,8,1,2]
lst.append(3)
lst.insert(1,5)
lst.extend([13,51])
lst.pop()
lst.remove(4)
lst.index(1)
lst.count(8)
print(lst)
lst.sort()
print(st.sort())
print(lst.sort())
lst.reverse()
b=[]
b=lst.copy()
print(lst)
print(b)
lst.clear()
print(lst)

# In[46]:

#slicing
num=[0,1,2,3,4,5,6,7,8,9,10]
print(num[0:4])
print(num[4:])
print(num[4:])
print(st)

# In[49]:

#list comprehension
[i**2 for i in [1,2,3]]

# In[51]:

[10*i+j for i in [1,2,3] for j in [5,7]]

# In[ ]:
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