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"""
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Engineers: Scott Murray, Josh Barkley, Aaron Lim
CSE408: Fadi
Spring 2020
Lab4: Version Control System
GitHub-advanced
Due: Tuesday May 5th 6:00 pm
"""
################################################################################
print("Begin problem 3-B (Aaron)")
"""
a. Write a program containing a function to reverse a user inputted string.

"""
################################################################################

inputStr = input(str("Please enter a string to REVERSE: "));
print("String BEFORE reverse is: ");
print();

def reverse(s):
  str = ""
  for i in s:
    str = i + str
  return str

print("String AFTER reverse is: ", (reverse(inputStr)));
print();

print("##############################################");
################################################################################
print("Begin problem 3-B (Aaron)")
"""
b. Write a program containing a function to check if a user inputted number is
prime.
"""
################################################################################
num = int(input("Enter a number: "));

# If given number is greater than 1
if num > 1:

   # Iterate from 2 to n / 2
   for i in range(2, num//2):

       # If num is divisible by any number between
       # 2 and n / 2, it is not prime
       if (num % i) == 0:
           print(num, "is not a prime number")
           break
   else:
       print(num, "is a prime number")

else:
   print(num, "is not a prime number")
```

```
print("##########################################");
################################################################################
print("Begin problem 3-C (Riley)")
"""
c. Write a program containing a function to convert the current time, into military
time.
"""
################################################################################

# -*- coding: utf-8 -*-
"""
Created on Thu Apr 30 16:04:19 2020

@author: woods
"""


# Python program to convert time
# from 12 hour to 24 hour format

# Function to convert the date format
def convert24(str1):

    # Checking if last two elements of time
    # is AM and first two elements are 12
    if str1[-2:] == "AM" and str1[:2] == "12":
        return "00" + str1[2:-2]

    # remove the AM
    elif str1[-2:] == "AM":
        return str1[:-2]

    # Checking if last two elements of time
    # is PM and first two elements are 12
    elif str1[-2:] == "PM" and str1[:2] == "12":
        return str1[:-2]

    else:

        # add 12 to hours and remove PM
        return str(int(str1[:2]) + 12) + str1[2:8]

# Driver Code
print(convert24("08:05:45 PM"))


print("##########################################");
################################################################################
print("Begin problem 3-D (Josh)")
"""
d. Write a program containing a function to output the fibonacci sum up to a user
inputted number.
"""
################################################################################

mynumber = int(input("Up too what number?"))
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n1, n2 = 0, 1
count = 0
if mynumber <= 0:
   print("Please enter a positive integer")
else:
   print("Fibonacci sequence:")
   while n1 < mynumber:
       print(n1)
       nth = n1 + n2
       n1 = n2
       n2 = nth


print("##############################################");
################################################################################
print("Begin problem 3-E (Scott)")
"""
e. Write a program containing a function to check if a user inputted string is a good
password or not, if not have them try again. A password is considered good if it
contains at least 7 characters and 2 of those are either a number or special
character(by special character I mean any one of the characters on the numbers
1-8, i.e. !@#$%^&*).
"""

# -*- coding: utf-8 -*-
"""
Created on Mon May  4 20:36:08 2020

@author: scott

CSE 408 lab4 Part E
"""

pswd = input("enter your password: ")

#print(ord('!'))
#print(ord('A'))

def pswdStren (psw):
    specialChar = 0
    for i in psw:
        if 32 < ord(i) < 65:
            specialChar += 1
    if len(psw) < 7:
        print("password length is too small")
        return
    elif specialChar < 2:
        print("password too weak, please include two or more special characters or numbers")
        return
    else:
        print("password is strong")

pswdStren(pswd)

################################################################################
```