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Course: Programming in Python CBS1011

Q1 . program to swap two variables

**Code:**

def swap(a,b):

    a,b = b,a

    return a,b

print("21BBS0162")

a = input("Enter a: ")

b = input("Enter b: ")

a,b = swap(a,b)

print("a = ",a)

print("b = ",b)

**Output:**

Text

Description automatically generated

Q2. program to print the n prime numbers.

**Code:**

def primeNumber(n):

    for i in range(2,n):

        for j in range(2,i):

            if i % j == 0:

                break

        else:

            print(i)

print("21BBS0162")

n = int(input("Enter n: "))

primeNumber(n)

**Output:**

Graphical user interface, text

Description automatically generated with medium confidence

Q3. Program to check if two strings are anagram

**Code:**

def anagram(str1,str2):

    str1 = str1.replace(" ","")

    str2 = str2.replace(" ","")

    str1 = str1.lower()

    str2 = str2.lower()

    if len(str1) != len(str2):

        return False

    else:

        for i in str1:

            if i in str2:

                str2 = str2.replace(i,"",1)

            else:

                return False

        return True

print("21BBS0162")

string = input("Enter string 1: ")

string2 = input("Enter string 2: ")

if anagram(string,string2):

    print("Anagram")

else:

    print("Not anagram")

**Output:**

**Text

Description automatically generated**

Q4. Program to find the minimum and maximum element in the given list.

**Code:**

def minmax(list):

    min = list[0]

    max = list[0]

    for i in list:

        if i < min:

            min = i

        elif i > max:

            max = i

    return min,max

a = [1,2,3,4,5,6,7,8,9,10]

min, max = minmax(a)

print("21BBS0162")

print("Min: ",min)

print("Max: ",max)

**Output:**

Text

Description automatically generated

Q5. Program to find the GCD of two numbers using recursion.

**Code:**

def gcd(a,b):

    if b == 0:

        return a

    else:

        return gcd(b,a%b)

print("21BBS0162")

a = int(input("Enter a: "))

b = int(input("Enter b: "))

print("GCD = ",gcd(a,b))

**Output:**

Graphical user interface, text, application, chat or text message

Description automatically generated

Q6. Program to read a file line by line and store it into a list.

**Code**

print("21BBS0162")

f = open("file.txt","r")

l = list()

for line in f:

    l.append(line)

print(l)

f.close()

**Output**

**A picture containing text, orange, close

Description automatically generated**

Q7. program to print the largest word in a file

**Code**

print("21BBS0162")

f = open("file.txt","r")

l = f.read()

l = l.split()

l.sort(key=len)

print(l[-1])

f.close()

**Output**

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Q8. Python program to count the number of lines in a text file.

**Code:**

print("21BBS0162")

f = open("file.txt","r")

count = 0

for i in f:

    count += 1

print("Number of lines: ",count)

f.close()

**Output:**

**Text

Description automatically generated**

Q9. Python program to remove newline characters from a file.

**Code**

print("21BBS0162")

f = open("file.txt","r")

l = f.read()

for i in l:

    if i == "\n":

        l = l.replace(i,"")

f.close()

f = open("file.txt","w")

f.write(l)

f.close()