MYBLOGOSPHERE

Sharing my Inner Ramblings









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PYTHON PROGRAMMING LABORATORY – 21CSL46







In this blog post, you will find solutions for the **PYTHON PROGRAMMING LABORATORY** (21CSL46) course work for the IV semester of **VTU** university. To follow along, you will need to set up a Python programming environment. We recommend using the Anaconda Python Distribution with Spyder as the integrated development environment (IDE). You can find the lab syllabus on the university's website or click <u>here</u>.

For detailed instructions as to setup the Python programming Environment refer to my previous blog shown <u>here</u>.

After getting the necessary development environment setup, Now lets focus on the solutions.

1. Question 1

- a. Test Average
- b. Palindrome



- 2. Question 2
 - a. Fibonacci Sequence
 - b. Base Conversion
- 3. Question 3
 - a. Sentence statistics
 - b. String Similarity
- 4. Question 4
 - a. Insertion Sort & Merge Sort
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- 5. Question 5
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- 8. Question 8
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 - a. **Download XKCD comics**
 - b. **Spreadsheet Operations**



10. Question 10

- a. Merge selected pages from Multiple PDFs to a new PDF
- b. Fetch weather data from the JSON

Question 1

Calculation of Test Average

Write a python program to find the best of two test average marks out of three test's marks accepted from the user.

Python Code

```
Enter marks for test1 : 45
Enter marks for test2 : 39
Enter marks for test3 : 48
Average of best two test marks out of three test's marks is 46.5
```

Palindrome Check & Digit Occurrence Count

Develop a Python program to check whether a given number is palindrome or not and also count the number of occurrences of each digit in the input number.

Python Code

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Tue Feb 21 16:35:54 2023

@author: Prabodh C P
"""

val = int(input("Enter a value : "))
str_val = str(val)
if str_val == str_val[::-1]:
    print("Palindrome")
else:
    print("Not Palindrome")

for i in range(10):
    if str_val.count(str(i)) > 0:
        print(str(i), "appears", str_val.count(str(i)), "times");
```





```
Enter a value : 1234234
Not Palindrome
1 appears 1 times
2 appears 2 times
3 appears 2 times
4 appears 2 times

Enter a value : 12321
Palindrome
1 appears 2 times
2 appears 2 times
3 appears 1 times
```

Question 2

Fibonacci Sequence

Defined as a function F as Fn = Fn-1 + Fn-2. Write a Python program which accepts a value for N (where N >0) as input and pass this value to the function. Display suitable error message if the condition for input value is not followed.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Tue Feb 21 16:46:55 2023

@author: Prabodh C P
"""

def fn(n):
   if n == 1:
      return 0
```

```
elif n == 2:
    return 1
else:
    return fn(n-1) + fn(n-2)

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

if num > 0:
    print("fn(", num, ") = ",fn(num) , sep ="")
else:
    print("Error in input")
```



Binary to Decimal & Octal to Hexadecimal Conversion

Develop a python program to convert binary to decimal, octal to hexadecimal using functions.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""

Created on Tue Feb 21 20:57:52 2023

@author: Prabodh C P
```

```
def bin2Dec(val):
    rev=val[::-1]
    dec = 0
    i = 0
    for dig in rev:
        dec += int(dig) * 2**i
        i += 1
    return dec
def oct2Hex(val):
    rev=val[::-1]
    dec = 0
    i = 0
    for dig in rev:
        dec += int(dig) * 8**i
        i += 1
    list=[]
    while dec != 0:
        list.append(dec%16)
        dec = dec // 16
    nl=[]
    for elem in list[::-1]:
        if elem <= 9:</pre>
            nl.append(str(elem))
        else:
            nl.append(chr(ord('A') + (elem -10)))
    hex = "".join(nl)
    return hex
num1 = input("Enter a binary number : ")
print(bin2Dec(num1))
num2 = input("Enter a octal number : ")
print(oct2Hex(num2))
```



Enter a binary number : 10111001 185

```
Enter a octal number : 675
1BD
```

Question 3

Sentence Statistics

Write a Python program that accepts a sentence and find the number of words, digits, uppercase letters and lowercase letters.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Wed Feb 22 01:37:07 2023
@author: Prabodh C P
0.000
sentence = input("Enter a sentence : ")
wordList = sentence.split(" ")
print("This sentence has", len(wordList), "words")
digCnt = upCnt = loCnt = 0
for ch in sentence:
   if '0' <= ch <= '9':
       digCnt += 1
   elif 'A' <= ch <= 'Z':
       upCnt += 1
   elif 'a' <= ch <= 'z':
        loCnt += 1
print("This sentence has", digCnt, "digits", upCnt, "upper case letters", lot
```

```
Enter a sentence : Rama went to Devaraja market to pick 2 kgs of vegetable
This sentence has 11 words
This sentence has 1 digits 2 upper case letters 42 lower case letters
```

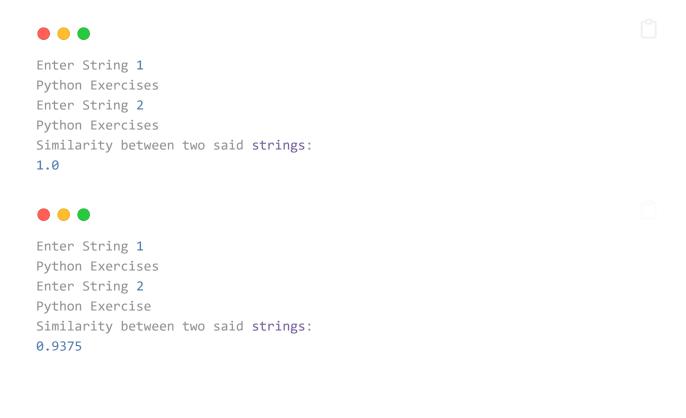
String Similarity

Write a Python program to find the string similarity between two given strings.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Wed Feb 22 01:48:17 2023
@author: Prabodh C P
0.00
str1 = input("Enter String 1 \n")
str2 = input("Enter String 2 \n")
if len(str2) < len(str1):</pre>
    short = len(str2)
    long = len(str1)
else:
    short = len(str1)
    long = len(str2)
matchCnt = 0
for i in range(short):
    if str1[i] == str2[i]:
        matchCnt += 1
```



```
print("Similarity between two said strings:")
print(matchCnt/long)
```



Question 4

Insertion Sort & Merge Sort on lists

Write a python program to implement insertion sort and merge sort using lists.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Thu Mar 9 04:06:09 2023
```

0.00

```
import random
def merge sort(lst):
    if len(lst) > 1:
        mid = len(lst) // 2
        left half = lst[:mid]
        right half = lst[mid:]
        merge_sort(left_half)
        merge_sort(right_half)
        i = j = k = 0
        while i < len(left_half) and j < len(right_half):</pre>
            if left half[i] < right half[j]:</pre>
                lst[k] = left_half[i]
                i += 1
            else:
                lst[k] = right_half[j]
                j += 1
            k += 1
        while i < len(left_half):</pre>
            lst[k] = left_half[i]
            i += 1
            k += 1
        while j < len(right_half):</pre>
            lst[k] = right_half[j]
            j += 1
            k += 1
    return 1st
def insertion sort(arr):
    for i in range(1, len(arr)):
        key = arr[i]
        j = i - 1
        while j >= 0 and key < arr[j]:
            arr[j + 1] = arr[j]
            j -= 1
        arr[j + 1] = key
my_list = []
for i in range(10):
```

```
my_list.append(random.randint(0, 999))

print("\nUnsorted List")
print(my_list)
print("Sorting using Insertion Sort")
insertion_sort(my_list)
print(my_list)

my_list = []

for i in range(10):
    my_list.append(random.randint(0, 999))

print("\nUnsorted List")
print(my_list)
print("Sorting using Merge Sort")
merge_sort(my_list)
print(my_list)
print(my_list)
```

```
Unsorted List
[932, 111, 226, 685, 543, 589, 918, 539, 294, 717]
Sorting using Insertion Sort
[111, 226, 294, 539, 543, 589, 685, 717, 918, 932]
Unsorted List
[613, 176, 828, 265, 65, 326, 359, 919, 514, 868]
Sorting using Merge Sort
[65, 176, 265, 326, 359, 514, 613, 828, 868, 919]
```

Roman to Integer Conversion

Develop a Python program to check whether a given number is palindrome or not and also count the number of occurrences of each digit in the input number.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Wed Feb 22 02:05:25 2023
@author: Prabodh C P
def roman2Dec(romStr):
    roman_dict ={'I': 1, 'V': 5, 'X': 10, 'L': 50, 'C': 100, 'D': 500, 'M': 1000}
    # Analyze string backwards
    romanBack = list(romStr)[::-1]
    value = 0
    # To keep track of order
    rightVal = roman dict[romanBack[0]]
    for numeral in romanBack:
        leftVal = roman_dict[numeral]
        # Check for subtraction
        if leftVal < rightVal:</pre>
           value -= leftVal
        else:
            value += leftVal
        rightVal = leftVal
    return value
romanStr = input("Enter a Roman Number : ")
print(roman2Dec(romanStr))
```

```
Enter a Roman Number : XVII

17

Enter a Roman Number : MLXVI

1066
```

Question 5

Check Phone Number

Write a function called isphonenumber () to recognize a pattern 415-555-4242 without using regular expression and also write the code to recognize the same pattern using regular expression.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 04:19:57 2023
@author: Prabodh C P
0.000
import re
def isphonenumber(numStr):
   if len(numStr) != 12:
        return False
   for i in range(len(numStr)):
        if i==3 or i==7:
            if numStr[i] != "-":
                return False
        else:
            if numStr[i].isdigit() == False:
                return False
    return True
def chkphonenumber(numStr):
   ph_no_pattern = re.compile(r'^\d{3}-\d{4}$')
   if ph_no_pattern.match(numStr):
        return True
   else:
        return False
ph num = input("Enter a phone number : ")
print("Without using Regular Expression")
```

```
if isphonenumber(ph_num):
    print("Valid phone number")
else:
    print("Invalid phone number")
print("Using Regular Expression")
if chkphonenumber(ph_num):
    print("Valid phone number")
else:
    print("Invalid phone number")
```



Search Phone Number & Email

Develop a python program that could search the text in a file for phone numbers (+919900889977) and email addresses (sample@gmail.com)

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
```



```
Created on Thu Mar 9 04:40:10 2023
@author: Prabodh C P
import re
# Define the regular expression for phone numbers
phone regex = re.compile(r'+d{12}')
email_regex = re.compile(r'[A-Za-z0-9._]+@[A-Za-z0-9]+\.[A-Z|a-z]{2,}')
# Open the file for reading
with open('example.txt', 'r') as f:
   # Loop through each line in the file
   for line in f:
        # Search for phone numbers in the line
       matches = phone regex.findall(line)
        # Print any matches found
        for match in matches:
            print(match)
       matches = email_regex.findall(line)
        # Print any matches found
        for match in matches:
```



print(match)

Question 6

File Operations



Write a python program to accept a file name from the user and perform the following operations

- 1. Display the first N line of the file
- 2. Find the frequency of occurrence of the word accepted from the user in the file

Python Code

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 05:26:33 2023
@author: Prabodh C P
import os.path
import sys
fname = input("Enter the filename : ")
if not os.path.isfile(fname):
   print("File", fname, "doesn't exists")
   sys.exit(0)
infile = open(fname, "r")
lineList = infile.readlines()
for i in range(20):
   print(i+1, ":", lineList[i])
word = input("Enter a word : ")
cnt = 0
for line in lineList:
   cnt += line.count(word)
print("The word", word, "appears", cnt, "times in the file")
```





```
Enter the filename : example.txt
1 : this is phone number +918151894220
2 : no phone number here
3 : here we have one +829392938876
4 : we have an email prakash81.82@gmail.in and a number +918768456234
5 : nothing of that sort here
6 : Better hope the life-inspector doesn't come around while you have your
7 : life in such a mess.
8 : You can create your own opportunities this week. Blackmail a senior executive
9 : Be different: conform.
10 : Be cheerful while you are alive.
            -- Phathotep, 24th Century B.C.
12 : Q: How many journalists does it take to screw in a light bulb?
13 : A: Three. One to report it as an inspired government program to bring
14:
       light to the people, one to report it as a diabolical government plot
15 :
       to deprive the poor of darkness, and one to win a Pulitzer prize for
       reporting that Electric Company hired a light bulb-assassin to break
       the bulb in the first place.
17 :
18 : Q: Why did the astrophysicist order three hamburgers?
19 : A: Because he was hungry.
20 : Q: Why haven't you graduated yet?
Enter a word : the
The word the appears 7 times in the file
```

Zip operation on a folder

Develop a program to backing Up a given Folder (Folder in a current working directory) into a ZIP File by using relevant modules and suitable methods.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""

Created on Fri Dec 23 16:14:28 2022

@author: Prabodh C P
```

```
import os
import sys
import pathlib
import zipfile
dirName = input("Enter Directory name that you want to backup : ")
if not os.path.isdir(dirName):
   print("Directory", dirName, "doesn't exists")
   sys.exit(0)
curDirectory = pathlib.Path(dirName)
with zipfile.ZipFile("myZip.zip", mode="w") as archive:
   for file path in curDirectory.rglob("*"):
        archive.write(file path, arcname=file path.relative to(curDirectory))
if os.path.isfile("myZip.zip"):
   print("Archive", "myZip.zip", "created successfully")
else:
   print("Error in creating zip archive")
```



Enter Directory name that you want to backup : zipDemo Archive myZip.zip created successfully

Question 7

Inheritance

By using the concept of inheritance write a python program to find the area of triangle circle and rectangle.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 05:40:37 2023
@author: Prabodh C P
0.00
import math
class Shape:
   def __init__(self):
        self.area = 0
        self.name = ""
   def showArea(self):
        print("The area of the", self.name, "is", self.area, "units")
class Circle(Shape):
   def __init__(self,radius):
        self.area = 0
        self.name = "Circle"
        self.radius = radius
   def calcArea(self):
        self.area = math.pi * self.radius * self.radius
class Rectangle(Shape):
   def __init__(self,length,breadth):
        self.area = 0
        self.name = "Rectangle"
        self.length = length
        self.breadth = breadth
   def calcArea(self):
        self.area = self.length * self.breadth
class Triangle(Shape):
   def __init__(self,base,height):
        self.area = 0
        self.name = "Triangle"
        self.base = base
        self.height = height
```

```
def calcArea(self):
    self.area = self.base * self.height / 2

c1 = Circle(5)
c1.calcArea()
c1.showArea()

r1 = Rectangle(5, 4)
r1.calcArea()
r1.showArea()

t1 = Triangle(3, 4)
t1.calcArea()
t1.showArea()
```

```
The area of the Circle is 78.53981633974483 units
The area of the Rectangle is 20 units
The area of the Triangle is 6.0 units
```

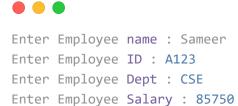
Employee Details

Write a python program by creating a class called Employee to store the details of Name, Employee_ID, Department and Salary, and implement a method to update salary of employees belonging to a given department.





```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 12:09:50 2023
@author: Prabodh C P
class Employee:
   def init (self):
       self.name = ""
        self.empId = ""
        self.dept = ""
        self.salary = 0
   def getEmpDetails(self):
        self.name = input("Enter Employee name : ")
        self.empId = input("Enter Employee ID : ")
        self.dept = input("Enter Employee Dept : ")
        self.salary = int(input("Enter Employee Salary : "))
   def showEmpDetails(self):
        print("Employee Details")
        print("Name : ", self.name)
        print("ID : ", self.empId)
        print("Dept : ", self.dept)
        print("Salary : ", self.salary)
   def updtSalary(self):
        self.salary = int(input("Enter new Salary : "))
        print("Updated Salary", self.salary)
e1 = Employee()
e1.getEmpDetails()
e1.showEmpDetails()
e1.updtSalary()
```





```
Employee Details
Name : Sameer
ID : A123
Dept : CSE
Salary : 85750

Enter new Salary : 88800
Updated Salary 88800
```

Question 8

Polymorphism and Inheritance

Write a python program to find the whether the given input is palindrome or not (for both string and integer) using the concept of polymorphism and inheritance.

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
0.000
Created on Thu Mar 9 12:20:20 2023
@author: Prabodh C P
0.00
class PaliStr:
   def __init__(self):
        self.isPali = False
   def chkPalindrome(self, myStr):
        if myStr == myStr[::-1]:
            self.isPali = True
        else:
            self.isPali = False
        return self.isPali
```

```
class PaliInt(PaliStr):
    def __init__(self):
        self.isPali = False
   def chkPalindrome(self, val):
        temp = val
        rev = 0
       while temp != 0:
            dig = temp % 10
            rev = (rev*10) + dig
            temp = temp //10
        if val == rev:
            self.isPali = True
        else:
            self.isPali = False
        return self.isPali
st = input("Enter a string : ")
stObj = PaliStr()
if stObj.chkPalindrome(st):
   print("Given string is a Palindrome")
else:
   print("Given string is not a Palindrome")
val = int(input("Enter a integer : "))
intObj = PaliInt()
if intObj.chkPalindrome(val):
   print("Given integer is a Palindrome")
else:
   print("Given integer is not a Palindrome")
```

• • •

Enter a string : madam

Given string is a Palindrome

Enter a integer : 567587

Given integer is not a Palindrome



```
Enter a string : INDIA

Given string is not a Palindrome

Enter a integer : 6789876

Given integer is a Palindrome
```

Question 9

Download XKCD comics

Write a python program to download the all XKCD comics

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 13:02:47 2023
@author: Prabodh C P
0.00
import requests
import os
from bs4 import BeautifulSoup
# Set the URL of the first XKCD comic
url = 'https://xkcd.com/1/'
# Create a folder to store the comics
if not os.path.exists('xkcd_comics'):
   os.makedirs('xkcd_comics')
# Loop through all the comics
while True:
   # Download the page content
   res = requests.get(url)
   res.raise_for_status()
```

```
# Parse the page content using BeautifulSoup
    soup = BeautifulSoup(res.text, 'html.parser')
   # Find the URL of the comic image
   comic elem = soup.select('#comic img')
   if comic elem == []:
        print('Could not find comic image.')
   else:
        comic url = 'https:' + comic elem[0].get('src')
        # Download the comic image
        print(f'Downloading {comic url}...')
        res = requests.get(comic_url)
        res.raise_for_status()
        # Save the comic image to the xkcd comics folder
        image_file = open(os.path.join('xkcd_comics', os.path.basename(comic_url))
        for chunk in res.iter content(100000):
            image file.write(chunk)
        image file.close()
   # Get the URL of the previous comic
   prev link = soup.select('a[rel="prev"]')[0]
   if not prev_link:
       break
   url = 'https://xkcd.com' + prev link.get('href')
print('All comics downloaded.')
```

```
Downloading https://imgs.xkcd.com/comics/barrel_cropped_(1).jpg...

Downloading https://imgs.xkcd.com/comics/radians_are_cursed.png...

Downloading https://imgs.xkcd.com/comics/presents_for_biologists.png...

Downloading https://imgs.xkcd.com/comics/launch_window.png...

Downloading https://imgs.xkcd.com/comics/obituary_editor.png...

Downloading https://imgs.xkcd.com/comics/fanservice.png...

Downloading https://imgs.xkcd.com/comics/fanservice.png...
```

Spreadsheet Operations

Demonstrate python program to read the data from the spreadsheet and write the data in to the spreadsheet

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 15:34:37 2023
@author: Prabodh C P
from openpyxl import Workbook
from openpyxl.styles import Font
wb = Workbook()
sheet = wb.active
sheet.title = "Language"
wb.create_sheet(title = "Capital")
lang = ["Kannada", "Telugu", "Tamil"]
state = ["Karnataka", "Telangana", "Tamil Nadu"]
capital = ["Bengaluru", "Hyderabad", "Chennai"]
code =['KA', 'TS', 'TN']
sheet.cell(row = 1, column = 1).value = "State"
sheet.cell(row = 1, column = 2).value = "Language"
sheet.cell(row = 1, column = 3).value = "Code"
ft = Font(bold=True)
for row in sheet["A1:C1"]:
   for cell in row:
        cell.font = ft
for i in range(2,5):
    sheet.cell(row = i, column = 1).value = state[i-2]
    sheet.cell(row = i, column = 2).value = lang[i-2]
    sheet.cell(row = i, column = 3).value = code[i-2]
wb.save("demo.xlsx")
```

```
sheet = wb["Capital"]
sheet.cell(row = 1, column = 1).value = "State"
sheet.cell(row = 1, column = 2).value = "Capital"
sheet.cell(row = 1, column = 3).value = "Code"
ft = Font(bold=True)
for row in sheet["A1:C1"]:
    for cell in row:
        cell.font = ft
for i in range(2,5):
    sheet.cell(row = i, column = 1).value = state[i-2]
    sheet.cell(row = i, column = 2).value = capital[i-2]
    sheet.cell(row = i, column = 3).value = code[i-2]
wb.save("demo.xlsx")
srchCode = input("Enter state code for finding capital ")
for i in range(2,5):
    data = sheet.cell(row = i, column = 3).value
    if data == srchCode:
        print("Corresponding capital for code", srchCode, "is", sheet.cell(row = i
sheet = wb["Language"]
srchCode = input("Enter state code for finding language ")
for i in range(2,5):
    data = sheet.cell(row = i, column = 3).value
    if data == srchCode:
        print("Corresponding language for code", srchCode, "is", sheet.cell(row =
wb.close()
```



Enter state code for finding capital KA
Corresponding capital for code KA is Bengaluru
Enter state code for finding language TS
Corresponding language for code TS is Telugu



Question 10

Merge selected pages from Multiple PDFs to a new PDF

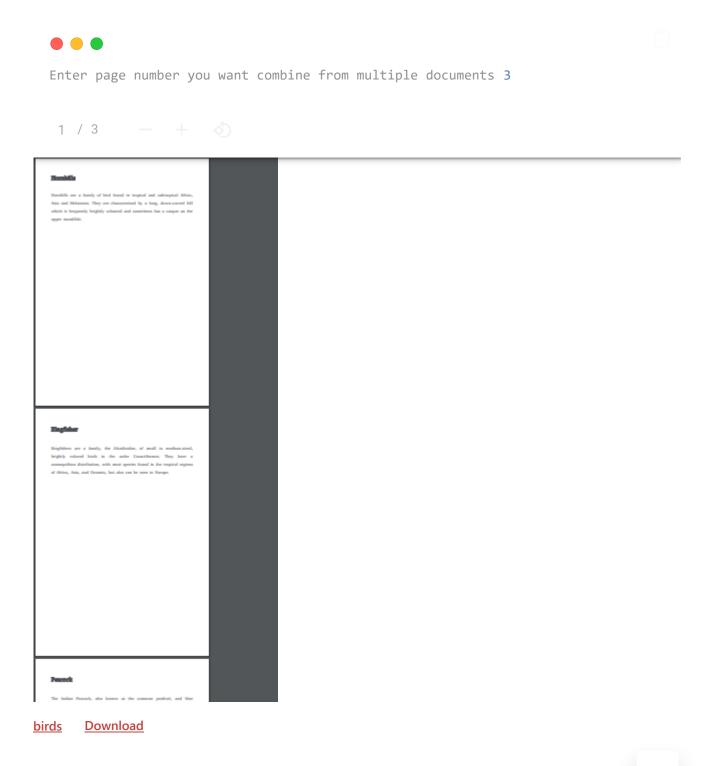
Write a python program to combine select pages from many PDFs

Python Code

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Thu Mar 9 17:34:55 2023
@author: Prabodh C P
from PyPDF2 import PdfWriter, PdfReader
num = int(input("Enter page number you want combine from multiple documents "))
pdf1 = open('birds.pdf', 'rb')
pdf2 = open('birdspic.pdf', 'rb')
pdf writer = PdfWriter()
pdf1_reader = PdfReader(pdf1)
page = pdf1_reader.pages[num - 1]
pdf_writer.add_page(page)
pdf2_reader = PdfReader(pdf2)
page = pdf2_reader.pages[num - 1]
pdf_writer.add_page(page)
with open('output.pdf', 'wb') as output:
   pdf_writer.write(output)
```



This program allows you to extract specific pages from two PDF files, "birds.pdf" and "birdspic.pdf," by entering the page numbers as user input. Once you input the desired page numbers, the program fetches those pages from both PDF files and combines them into a new file called "output.pdf." This way, you can easily compile the desired pages from multiple PDF files into one document for your convenience.



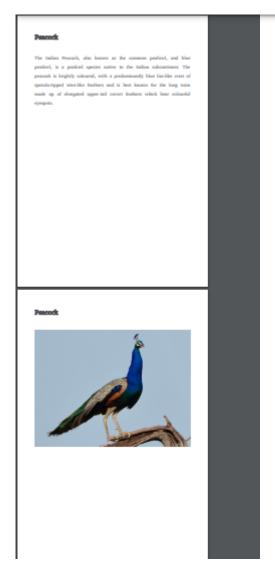




<u>birdspic</u> <u>Download</u>







output Download

Fetch weather data from the JSON

Write a python program to fetch current weather data from the JSON file





```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
Created on Fri Mar 10 09:22:53 2023
@author: Prabodh C P
import json
# Load the JSON data from file
with open('weather data.json') as f:
   data = json.load(f)
# Extract the required weather data
current temp = data['main']['temp']
humidity = data['main']['humidity']
weather desc = data['weather'][0]['description']
# Display the weather data
print(f"Current temperature: {current temp}°C")
print(f"Humidity: {humidity}%")
print(f"Weather description: {weather_desc}")
```

JSON File:

```
{
   "coord": {
     "lon": -73.99,
     "lat": 40.73
},
   "weather": [
     {
        "id": 800,
        "main": "Clear",
        "description": "clear sky",
        "icon": "01d"
     }
],
   "base": "stations",
   "main": {
        "temp": 15.45,
        "feels_like": 12.74,
```

```
"temp_min": 14.44,
  "temp max": 16.11,
  "pressure": 1017,
  "humidity": 64
},
"visibility": 10000,
"wind": {
  "speed": 4.63,
  "deg": 180
},
"clouds": {
  "all": 1
"dt": 1617979985,
"sys": {
  "type": 1,
  "id": 5141,
  "country": "US",
  "sunrise": 1617951158,
  "sunset": 1618000213
},
"timezone": -14400,
"id": 5128581,
"name": "New York",
"cod": 200
```



```
Current temperature: 15.45°C
Humidity: 64%
Weather description: clear sky
```

Prabodh C P

Prabodh C P is a faculty in the Dept of CSE SIT, Tumkur and also currently a Research Scholar pursuing PhD in IIT Hyderabad.

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