ITP-MINOR-AUGUST

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Description

- The main moto of this project is to solve few problems of an Engineering student.
- While working on this project I have noticed many of my friends are using online File Organizer, Number System Converter, Temp Cleaner. So, I have decided to make these tools offline.

File Organizer

- A common problem I have noticed for a student in any degree is finding the desired files.
- By using the program, I have designed, files that have been acquired from various sources like Whatsapp, Mail... can be sorted based on their extensions such as jpeg, png, pdf, mp4, jpg, h5, py... and they are moved to their corresponding folders named after their extensions of the selected directory.
- This makes students to find their desired files easy and saves their time.

Number System Converter

- As an ECE student I have to regularly work with Number systems of base 3 or 4 or 6 and there is no online tool to convert the numbers with above bases.
- Manual conversion consumes a lot of time. So, I have come with a Number system converter that can convert any number system to the number system of desired base.

Temporary File Cleaner

- While working with applications like VS code, Pycharm, Sublime Text... memory gets filled up with Temporary files which are related to execution of the program.
- These are created with every single script we write and occupies memory which makes our systems slower day by day.
- Where manual deletion of these files includes many steps. To solve this difficulty of users I have designed this temporary file cleaner.

Code

Main.py

```
from Customtkinter import *

from Number_System_Converter import N_S_C

from Temp_Cleaner import Temp_clean

from File_Organizer import File_organizer

main = CTk()

main.geometry('350x350')

set_appearance_mode("System")

set_default_color_theme("green")

CTkLabel(main, text="Choose Operation", font=('Arial', 14)).pack(padx=10, pady=10)

CTkButton(main, text="Number System Converter", command=N_S_C).pack(padx=10, pady=10)

CTkButton(main, text="Temporary Files Cleaner".center(23), command=Temp_clean).pack(padx=10, pady=10)

CTkButton(main, text="Organize Files".center(23), command=File_organizer).pack(padx=10, pady=10)

main.title("Main")

main.mainloop()
```

Number_System_Converter.py

```
from customtkinter import *

def ToDecimal() -> str:

global inp_val

global inp_base

global out_base

num = (inp_val.get()).upper()

base = inp_base.get()

dec_val = 0

if '.' in num:

num, dec = num.split('.')
```

```
for i, j in enumerate(dec):
       if j.isalpha():
         j = str(ord(j) - 55)
       dec_val += int(j) * (base ** -(i + 1))
    print(dec_val)
  num_val = str(int(num, base=base))
  if dec_val != 0:
    text = num_val + str(dec_val)[1:]
  else:
    text = num_val
  if out_base.get() == 10:
    empty_label.configure(text=text)
  else:
    empty_label.configure(text=ToOther(text, base=out_base.get()))
def ToOther(num: str, base: int):
  res: list[int, ...] = list()
  dec: str = '0'
  dec_val: list[int, ...] = list()
  if '.' in num:
    num, dec = num.split('.')
    dec = float('0.' + dec)
    int_med = []
    while dec not in int_med and dec > 0:
       int_med.append(dec)
       rem = int(dec := (dec * base))
       dec -= rem
       dec_val.append(rem) if rem < 10 else dec_val.append(chr(rem + 55))
  num = int(num)
  while num > 0:
    rem = num % base
    if rem < 10:
      res.insert(0, str(rem))
    else:
```

```
res.insert(0, chr(rem + 55))
    num //= base
  return ".join(res) if dec == '0' else ".join(res) + '.' + ".join(map(str, dec_val))
win = CTk()
win.geometry('500x500')
inp_base = IntVar()
inp_val = StringVar()
out base = IntVar()
CTkLabel(win, text="Answer is: ", font=('Arial', 14)).grid(row=4, column=0)
empty_label = CTkLabel(win, text_color='black', text='No Answer', font=('Arial', 24))
empty_label.grid(row=4, column=1, columnspan=3)
def N_S_C():
  global inp_val
  global inp_base
  global out_base
  global win
  try:
    while True:
      CTkLabel(win, text="Base From: ").grid(row=0, column=0)
      CTkEntry(win, textvariable=inp_base, font=('Arial', 14)).grid(row=0, column=1)
      CTkLabel(win, text="Value: ").grid(row=1, column=0)
      CTkEntry(win, textvariable=inp_val, font=('Arial', 14)).grid(row=1, column=1)
      CTkLabel(win, text="Base To:").grid(row=2, column=0)
      CTkEntry(win, textvariable=out_base, font=('Arial', 14)).grid(row=2, column=1)
      CTkButton(win, command=ToDecimal, hover color='blue').grid(row=3, column=1)
      win.mainloop()
  except Exception as e:
    print("Invalid Input", e)
  finally:
    print("Exited....")
```

Temp_Cleaner.py

```
from os import system as sys

def Temp_clean():

try:

sys(r'del /q /f /s %temp%\\*')

sys(r'del /s /q C:\\Windows\\temp\*')

except Exception as e:

print(e)

input("Press Enter to Retry....")

finally:

print('Done...')
```

File Organizer.py

```
import os
import shutil
from customtkinter import filedialog

def File_organizer():
    path = filedialog.askdirectory(title="Select Folder")

list_of_files = os.listdir(path)

for files in list_of_files:
    name, extension = os.path.splitext(files)

    extension = extension[1:]

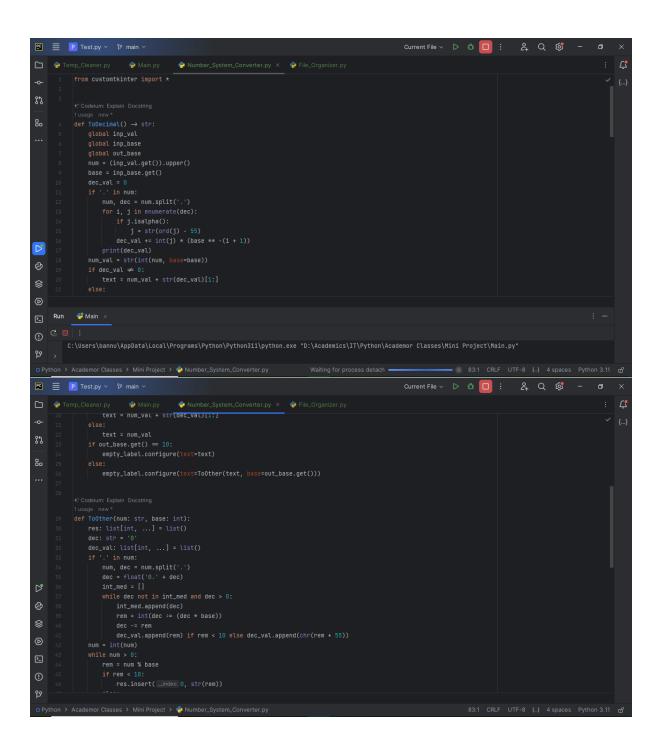
if os.path.exists(path + '/' + extension):
    shutil.move(path + '/' + files, path + '/' + extension + '/' + files)

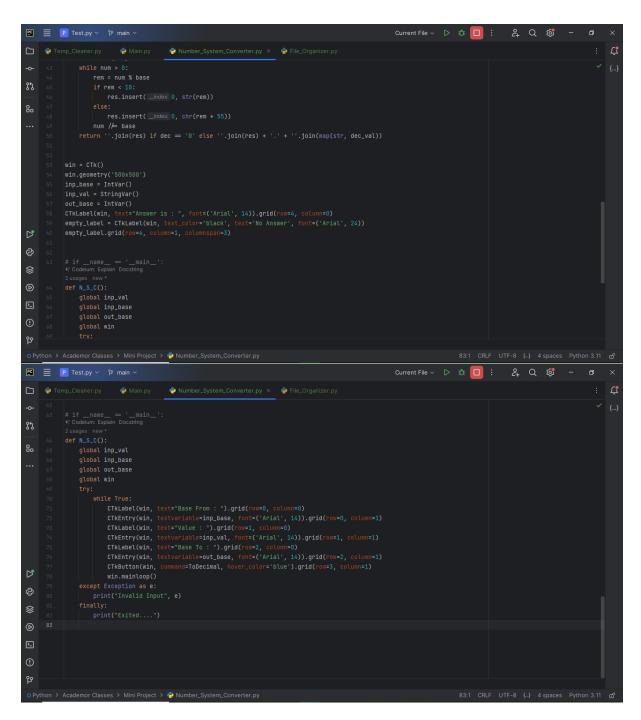
else:
    os.makedirs(path + '/' + extension)
    shutil.move(path + '/' + files, path + '/' + extension + '/' + files)
```

Images of the Project

Script Images

Main.py





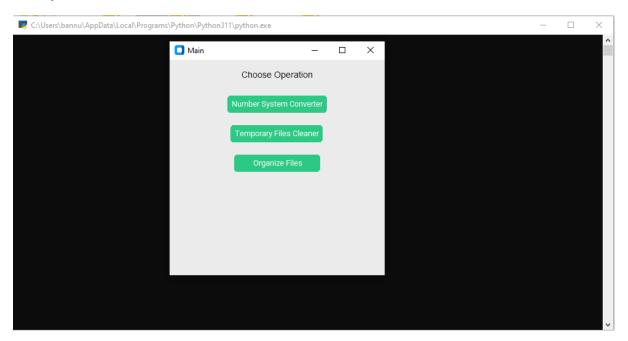
Number System Converter.py

Temporary File Cleaner.py

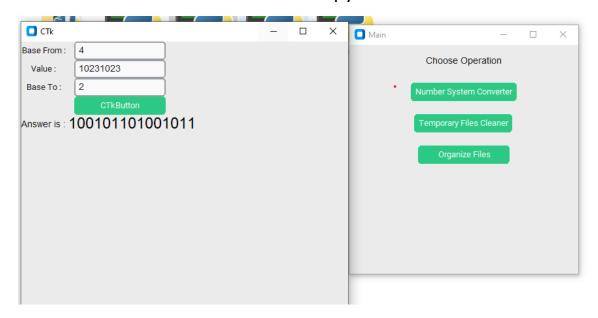
```
| Test.py | P main |
```

File Organizer.py

Outputs



Main.py



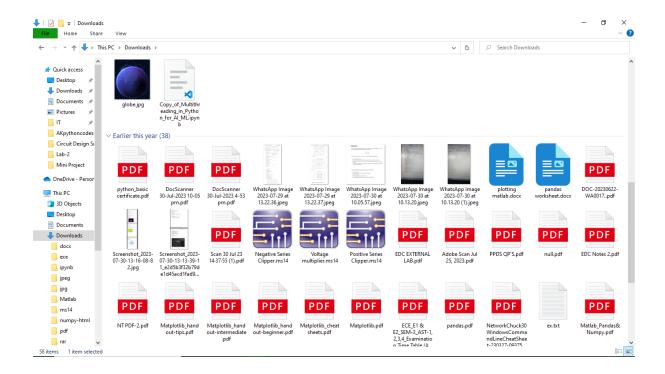
Number_System_Converter.py

```
Eslect C:\Users\bannu\AppData\Loca\\Programs\Python\Python311\python.exe

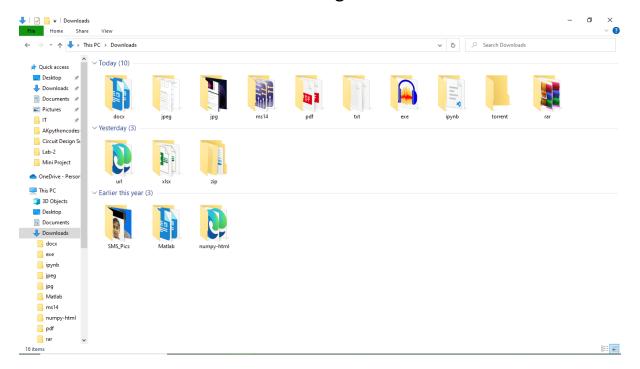
Deleted file - C:\Users\bannu\AppData\Loca\\Temp\byteBuddyAgent1369341458010639922.jar

Access is denied.
C:\Users\bannu\AppData\Loca\\Temp\F88666f1-f38c-4748-32a-563891b724cc.tmp
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\F8866f1-f38c-4748-32a-568891b724cc.tmp
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\AF98635E15D42650.TMP
Access is denied.
C:\Users\bannu\AppData\Loca\\Temp\3057090651713113198\codeium\manafer\locks\child_lock_1693584820295966600_6638335402421
408983
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\3057090651713113198\codeium\manager\locks\manager.lock
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\3057090651713113198\codeium\manager\locks\manager.lock
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\3057090651713113198\codeium\manager\locks\manager\cotexp-outputs\language_server_stderr_169358482029
5966600_6438633347125784978
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\Diagnostics\WINMORD\App_1693584329794102200_9983FA6C-4C13-41A2-96DC-5EAA5E9644FD.log
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\Diagnostics\WINMORD\App_169358432979580180_9983FA6C-4C13-41A2-96DC-5EAA5E9644FD.log
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\Diagnostics\WINMORD\App_169358432979580180_9983FA6C-4C13-41A2-96DC-5EAA5E9644FD.log
The process cannot access the file because it is being used by another process.
C:\Users\bannu\AppData\Loca\\Temp\Diagnostics\WINMORD\App_169358432979580180_9983FA6C-4C13-41A2-96DC-
```

Temp_Cleaner.py



Before File Organization



After File Organization

File_Organizer.py