## CAMILO PALACIO MESA

PROGRAMACION ORIENTADA A OBJETOS

PROFESOR: WALTER HUGO ARBOLEDA MAZO

CRUD

UNIVERSIDAD NACIONAL DE COLOMBIA
MEDELLIN

NOTA: Primeramente, el código proporcionado en 'Material guía:

https://www.geeksforgeeks.org/file-handling-in-java-with-crudoperations/' fue traducido tal cual está a Python a través de la pagina:

https://you.com/code?utm\_source=youtube&utm\_medium=video&utm\_content=linktree&utm\_c ampaign=channel&cfr=codeanything

```
import <u>os</u>
class AddFriend:
    @staticmethod
    def main(data):
            new_name = data[0]
            new_number = int(data[1])
            name_number_string = ''
            name = ''
            number = 0
            file = "friendsContact.txt"
            if not os.path.exists(file):
                open(file, 'w').close()
            with open(file, 'r+') as raf:
                found = False
                for line in raf:
                    line_split = line.strip().split("!")
                    name = line_split[0]
                    number = int(line_split[1])
```

```
if name == new_name or number == new_number:
                        found = True
                        break
                if not found:
                    name_number_string = new_name + "!" + str(new_number)
                    raf.write(name_number_string + '\n')
                    print("Friend added.")
                    print("Input name or number already exists.")
       except IOError as ioe:
            print(ioe)
        except ValueError as nef:
           print(nef)
class DisplayFriends:
   @staticmethod
   def main(data):
            name_number_string = ''
            name = ''
            number = 0
            file = "friendsContact.txt"
            if not os.path.exists(file):
                open(file, 'w').close()
            with open(file, 'r') as raf:
                for line in raf:
                    line_split = line.strip().split("!")
```

```
name = line_split[0]
                    number = int(line_split[1])
                    print("Name:", name, ", Number:", number)
       except IOError as ioe:
            print(ioe)
class UpdateFriend:
   @staticmethod
   def main(data):
           old_name = data[0]
           new_number = int(data[1])
            name_number_string = ''
            name = ''
            number = 0
            pointer = 0
            file = "friendsContact.txt"
            if not os.path.exists(file):
                open(file, 'w').close()
            with open(file, 'r+') as raf:
                found = False
                for line in raf:
                    line_split = line.strip().split("!")
                    name = line split[0]
```

```
number = int(line_split[1])
                    if name == old name:
                        found = True
                        break
                if found:
                    name_number_string = name + "!" + str(new_number)
                    pointer = raf.tell() - len(name_number_string) -
len(os.linesep)
                    raf.seek(pointer)
                    raf.write(name_number_string)
                    print("Friend updated.")
                    print("Input name does not exist.")
        except IOError as ioe:
            print(ioe)
        except ValueError as nef:
            print(nef)
class DeleteFriend:
   @staticmethod
    def main(data):
            name_to_delete = data[0]
            name_number_string = ''
            name = ''
            number = 0
            pointer = 0
```

```
file = "friendsContact.txt"
if not os.path.exists(file):
    open(file, 'w').close()
temp_file = "temp.txt"
with open(file, 'r') as raf, open(temp_file, 'w') as temp_raf:
    found = False
    for line in raf:
        line_split = line.strip().split("!")
        name = line split[0]
        number = int(line_split[1])
        if name == name_to_delete:
            found = True
            break
   if found:
        pointer = raf.tell() - len(line) - len(os.linesep)
        raf.seek(pointer)
        for line in raf:
            temp_raf.write(line)
        raf.truncate(pointer)
        print("Friend deleted.")
```

```
else:
    # Print the message
    print("Input name does not exist.")

# Deleting the temporary file
    os.remove(temp_file)

except IOError as ioe:
    print(ioe)
except ValueError as nef:
    print(nef)
```

Luego, será subido a este mismo brach en github el código con interfaz grafica en formato .py