- 1. Write a Python program to read first n lines of a file.
- 2. Write a Python program to append text to a file and display the text.
- 3. Write a Python program to read a file line by line and store it into a list.
- 4. Write a program to print each line of a file in reverse order.
- 5. Write a Python program to write a list content to a file.

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- 6. Write a program to compute the number of characters, words and lines in a file.
- 7. Write a program to accept string/sentences from the user till the user enters "END" to. Save the data in a text file and then display only those sentences which begin with an uppercase alphabet.
- 8. Write a program to enter the following records in a binary file: Item No integer Item\_Name string Qty integer Price float Number of records to be entered should be accepted from the user. Read the file to display the records in the following format: Item No: Item Name: Quantity: Price per item: Amount: ( to be calculated as Price \* Qty)

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                  0,!=3.0.1,<3.1.0,>=2.0.0->ipython>=7.23.1->ipykernel->jupyterlab<5,>=4.0.2->notebook) (0.2.5)
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                  Requirement already satisfied: executing in c:\programdata\anaconda3\lib\site-packages (from stack-data->ipytho
                  n>=7.23.1->ipykernel->jupyterlab<5,>=4.0.2->notebook) (0.8.3)
                  Requirement already satisfied: pure-eval in c:\programdata\anaconda3\lib\site-packages (from stack-data->ipytho
                  n>=7.23.1->ipykernel->jupyterlab<5,>=4.0.2->notebook) (0.2.2)
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                  n>=7.23.1->ipykernel->jupyterlab<5,>=4.0.2->notebook) (2.0.5)
                  Note: you may need to restart the kernel to use updated packages.
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                  es)
In [2]: #Q1
                  def read first n lines(file path, n):
                           try:
                                    with open(file path, 'r') as file:
                                             lines = file.readlines() # Read all lines from the file into a list
                                              for i in range(min(n, len(lines))): # Iterate up to the minimum of n and the number of lines
                                                      print(lines[i].strip()) # Print each line, stripping whitespace
                           except FileNotFoundError:
                                    print(f"File '{file_path}' not found.")
                           except Exception as e:
                                    print(f"An error occurred: {e}")
                                                         _main ":
                           file path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of your file
                           n = 5 # Change this to the number of lines you want to read
                            read first n lines(file path, n)
                  High-Level and Readable: Python
                  Interpreted Language: Python
                  Multi-Purpose Language
                  Strong Community and Ecosystem: Python
In [3]: #Q2
                  def append_text to file(file_path, text):
                           try:
                                    with open(file_path, 'a') as file:
    file.write(text) # Append the text to the file
                                    with open(file_path, 'r') as file:
    content = file.read() # Read the entire content of the file
                                             print("File content after appending:")
                                             print(content)
                           except FileNotFoundError:
```

print(f"File '{file path}' not found.")

print(f"An error occurred: {e}")

except Exception as e:

```
_name__ == "__main__":
file_path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of your file
         if __name_
             text to append = "This is the text to append."
             append_text_to_file(file_path, text_to_append)
         File content after appending:
         High-Level and Readable: Python
         Interpreted Language: Python
         Multi-Purpose Language
         Strong Community and Ecosystem: Python
         This is the text to append.
In [14]: #Q3
         def read_file_into_list(file_path):
             lines = [] # Initialize an empty list to store the lines
                 with open(file_path, 'r') as file:
                      for line in file:
                         lines.append(line.strip()) # Append each line to the list, stripping any leading/trailing whit
                 return lines
             except FileNotFoundError:
                 print(f"File '{file_path}' not found.")
             except Exception as e:
                 print(f"An error occurred: {e}")
                           main ":
                     == "
             file_path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of your file
             lines list = read file into list(file path)
             if lines list:
                 print("Lines read from the file and stored in a list:")
                 for line in lines_list:
                     print(line)
         Lines read from the file and stored in a list:
         High-Level and Readable: Python
         Interpreted Language: Python
         Multi-Purpose Language
         Strong Community and Ecosystem: Python
         This is the text to append.
In [15]:
         #04
         def reverse_lines_in_file(file_path):
                 with open(file path, 'r') as file:
                     lines = file.readlines() # Read all lines from the file into a list
                     reversed_lines = [line.strip()[::-1] for line in lines] # Reverse each line and store them in a li
                     print("Lines in reverse order:")
                      for line in reversed lines:
                         print(line)
             except FileNotFoundError:
                 print(f"File '{file_path}' not found.")
             except Exception as e:
                 print(f"An error occurred: {e}")
              name
                           main ":
             file path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of your file
             reverse_lines_in_file(file_path)
         Lines in reverse order:
         nohtyP :elbadaeR dna leveL-hgiH
         nohtyP :egaugnaL deterpretnI
         egaugnaL esopruP-itluM
         nohtyP :metsysocE dna ytinummoC gnortS
         .dneppa ot txet eht si sihT
In [16]: #Q5
         def write list to file(file path, data):
             try:
                 with open(file_path, 'w') as file:
                      for item in data:
                          file.write(str(item) + '\n') # Write each item from the list to the file
                 print(f"Data has been written to '{file_path}'.")
             except Exception as e:
                 print(f"An error occurred: {e}")
                           main
             file_path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of the file you want to writ
```

```
data to write = ["High-Level and Readable: Python", "Interpreted Language: Python", "Multi-Purpose Language
              write list to file(file path, data to write)
         Data has been written to 'C:/Users/DELL/Desktop/SCHOLARSHIP.txt'.
In [17]:
         def count characters words lines(file path):
              try:
                  with open(file_path, 'r') as file:
                      text = file.read()
                      num characters = len(text)
                      num_words = len(text.split())
                      num_lines = len(text.splitlines())
                      print(f"Number of characters: {num_characters}")
                      print(f"Number of words: {num_words}")
print(f"Number of lines: {num_lines}")
              except FileNotFoundError:
                  print(f"File '{file path}' not found.")
              except Exception as e:
                  print(f"An error occurred: {e}")
                      == "
                            main ":
              file_path = "C:/Users/DELL/Desktop/SCHOLARSHIP.txt" # Change this to the path of your file
              count characters words lines(file path)
         Number of characters: 123
         Number of words: 14
         Number of lines: 4
In [18]:
         def main():
              user_input = [] # Initialize a list to store user input
              while True:
                  sentence = input("Enter a sentence (or 'END' to finish): ")
                  if sentence == "END":
                      break
                  user_input.append(sentence)
              # Save the user input to a text file
              with open("user input.txt", "w") as file:
                  for sentence in user input:
                      file.write(sentence + "\n")
              # Display sentences that start with an uppercase letter
              with open("C:/Users/DELL/Desktop/SCHOLARSHIP.txt", "r") as file:
                  lines = file.readlines()
                  print("Sentences that start with an uppercase letter:")
                  for line in lines:
                      if line.strip() and line[0].isupper():
                          print(line.strip())
                     _ == "__main__":
              name
             main()
         Enter a sentence (or 'END' to finish): I LOVE PYTHON Enter a sentence (or 'END' to finish): END
         Sentences that start with an uppercase letter:
         High-Level and Readable: Python
         Interpreted Language: Python
         Multi-Purpose Language
         Strong Community and Ecosystem: Python
         #08
In [23]:
         import struct
         def write records to binary file(file path, num records):
                  with open(file_path, 'wb') as file:
                      for in range(num records):
                          item_no = int(input("Enter Item No: "))
                           item name = input("Enter Item Name: ")
                          quantity = int(input("Enter Quantity: "))
                          price = float(input("Enter Price per item: "))
                          amount = quantity * price
                          # Pack the data and write to the binary file
                           packed_data = struct.pack('i32sif', item_no, item_name.encode('utf-8'), quantity, price)
                           file.write(packed_data)
              except Exception as e:
                  print(f"An error occurred: {e}")
          def read records from binary file(file path):
              try:
```

```
with open(file_path, 'rb') as file:
             record_size = struct.calcsize('i32sif')
             while True:
                 packed data = file.read(record size)
                  if not packed data:
                      break
                 item_no, item_name, quantity, price = struct.unpack('i32sif', packed_data)
item_name = item_name.decode('utf-8').rstrip('\x00')
                 amount = quantity * price
                 print(f"Item No: {item_no}")
                 print(f"Item Name: {item_name}")
                 print(f"Quantity: {quantity}")
print(f"Price per item: {price}")
                 print(f"Amount: {amount}")
                 print()
    except FileNotFoundError:
        print(f"File '{file_path}' not found.")
    except Exception as e:
        print(f"An error occurred: {e}")
if __name__ == "__main__":
    file_path = "records.dat"
    num_records = int(input("Enter the number of records to be entered: "))
    write records to binary file(file path, num records)
    print("\nRecords written to the binary file.\n")
    print("Reading and displaying records from the binary file:\n")
    read records from binary file(file path)
Enter the number of records to be entered: 1
Enter Item No: 1
Enter Item Name: BOOKS
Enter Quantity: 5
Enter Price per item: 20
Records written to the binary file.
Reading and displaying records from the binary file:
Item No: 1
Item Name: BOOKS
Quantity: 5
Price per item: 20.0
Amount: 100.0
```

THANK YOU

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