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| **Netaji Subhash Engineering College**  **Department of Computer Science & Engineering**  **B. Tech CSE 2nd Year 3rd Semester**  **2023-2024**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Name of the Course: IT Workshop (Python)**  **Course Code: PCC-CS393**  **Name of the Student: ARITTRA BAG**  **Class Roll No.: 103**  **University Roll No.: 10900122105**  **Date of Experiment: 10/11/2023**  **Date of Submission: 10/02/2024**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Assignment No.: A10\_01**  **Problem Statement:**  Write a program to accept a file name from the user and count the number of words present in the file.  **Python Code:**  try:      file\_name = input("Enter the file name: ")      with open(file\_name, 'r') as file:          num\_words = len(file.read().split())          print(f"The number of words in the file '{file\_name}' is: {num\_words}")  except Exception as e:          print(e)  **Sample file:**  Here I am  standing op  **Sample Output(s):**  Enter the file name: temp.txt  Number of words in the file: 5  **Assignment No.: A10\_02**  **Problem Statement:**  Write a program to print each line of a file in reverse order.  **Python Code:**  try:      file\_name = input("Enter the file name: ")      with open(file\_name, 'r') as file:          for line in file.readlines():              print(line[::-1])  except Exception as e:          print("Error Occured: ",e)  **Sample file:**  Here I am  standing op  **Sample Output(s):**  Enter the filename: temp.txt  ma I ereH  po gnidnats  **Assignment No.: A10\_03**  **Problem Statement:**  Write a program to reverse the content of a file and store it in another file.  **Python Code:**  try:      file\_name = input("Enter the file name: ")      with open(file\_name, 'r') as file:          with open('rev\_file.txt', 'w') as out:              out.write(file.read()[::-1])  except Exception as e:      print("Error Occured: ",e)  **Sample file:**  Here I am  standing op  **Sample Output(s):**  Enter the name of the input file: temp.txt  Enter the name of the output file: rev\_file.txt  **Sample output file:**  po gnidnats  ma I ereH  **Assignment No.: A10\_04**  **Problem Statement:**  Write a program to copy the first 100 characters of a binary file into another.  **Python Code:**  try:      with open('input.bin', 'rb') as input\_file, open('output.bin', 'wb') as output\_file:          first\_100\_chars = input\_file.read(100)          output\_file.write(first\_100\_chars)      print("Copy successful.")  except Exception as e:      print(f"An error occurred: {e}")  **Sample input file:**  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.  **Sample Output(s):**  Enter the input filename: input.bin  Enter the output filename: output.bin  **Sample output file:**  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore  **Assignment No.: A10\_05**  **Problem Statement:**  Write a program to copy the content of the text file to another file by converting all lowercase characters to uppercase.  **Python Code:**  try:      file\_name = input("Enter the file name: ")      out\_name = input("Enter the Output File Name: ")      with open(file\_name, 'r') as file:          with open(out\_name, 'w') as out:              out.write(file.read().upper())  except Exception as e:      print("Error Occured: ",e)  **Sample input file:**  Here I am  standing op  **Sample Output(s):**  Enter the input filename: temp.txt  Enter the output filename: sample.txt  **Sample output file:**  HERE I AM  STANDING OP  **Assignment No.: A10\_06**  **Problem Statement:**  Write a program to copy one Python script into another in such a way that all comment lines are skipped and not copied to the destination file.  **Python Code:**  ifile=input("Enter the file name: ")      ofile=input("Enter the Output File Name: ")      with open(ifile,'r') as file:          with open(ofile,'w') as out:              comb = False              for line in file:                  if "'''" in line:                      comb = not comb                      continue                  elif comb:                      continue                  elif line.strip().startswith('#') or '#' in line:                      out.write(line.split('#')[0])                  else:                      out.write(line)  print("Copy successful.")  **Sample input file:**  abcdefg hhhhh  hijklmnop #ayansucks  #that sucks  zzzzzz  '''  something  '''  bingo #amazing  **Sample Output(s):**  Enter the input filename: temp.txt  Enter the output filename: gen.txt  **Sample output file:**  abcdefg hhhhh  hijklmnop zzzzzz  bingo |