Ex.No.: 6	**Usage of Files operations in Python**	**Register Number:** **URK24CS1189**

6 A. Write a Python Program to read a file's entire content and store it back in another file in a reverse manner.

Aim: -

To write a Python program that reads the entire content of a file, reverses the content, and stores it back in another file.

Algorithm: -

Step 1: Start.
Step 2: Open the input file in read mode.
Step 3: Read the entire content of the file.
Step 4: Split the content into words and store them in a list.
Step 5: Reverse the order of words in the list.
Step 6: Join the reversed words back into a string with spaces.
Step 7: Open the output file in write mode.
Step 8: Write the reversed content into the output file.
Step 9: Close both input and output files.
Step 10: Display a success message.
Step 11: End.

Program: -

```python
# reverse file.py > ...
#URK24CS1189
def reverse_file_content(input_file, output_file):
    with open(input_file, 'r') as file:
        content = file.read()
        reversed_content = ' '.join(content.split()[::-1])
    with open(output_file, 'w') as file:
        file.write(reversed_content)
reverse_file_content('input.txt', 'output.txt')
print("Successfully Reversed....")
```

Output: -

```
Successfully Reversed....
```

```
# output.txt
1    fine? are you hope you? are how Hi
```

```
# input.txt
1    Hi how are you? hope you are fine?
```

6 B. Write a python function to copy the content of one file into another file.

Aim: -

　　　To write a Python function that copies the content of one file into another file.

Algorithm: -

Step 1: Start.
Step 2: Open the source file in read mode.
Step 3: Read the entire content of the source file.
Step 4: Open the destination file in write mode.
Step 5: Write the content into the destination file.
Step 6: Close both files.
Step 7: End.

Program: -

```
copy text.py > copy_file_content
1    #URK24CS1189
2    def copy_file_content(source_file, destination_file):
3        with open(source_file, 'r') as src:
4            content = src.read()
5        with open(destination_file, 'w') as dest:
6            dest.write(content)
7    copy_file_content('input.txt', 'output.txt')
8    print("The content copied Successfully ....")
9
```

Output: -

```
The content copied Successfully ....
```

```
input.txt
1    Hi how are you? hope you are fine?
```

```
output.txt
1    Hi how are you? hope you are fine?
```

6 C. Write a Python program to extract the word starting in vowels from a text file and print the same.

Aim: -

　　　To write a Python program that extracts and prints words starting with vowels (A, E, I, O, U) from a text file.

Algorithm: -

Step 1: Start.
Step 2: Declare a list named groceries.
Step 3: Create a two dictionary named stock and prices with key and values.
Step 4: Define a function bill with argument.
Step 5: Declare total = 0.
Step 6: Using for loop , get key and add the price and stock , decrease the stock store in total.
Step 7: Call the function , and print the total.
Step 8: End.

Program: -

```python
#URK24CS1189
def extract_vowel_words(filename):
    vowels = 'AEIOUaeiou'
    with open(filename, 'r') as file:
        words = file.read().split()
    vowel_words = [word for word in words if word[0] in vowels]
    print("Words starting with vowels:", vowel_words)
extract_vowel_words('textfile.txt')
print("Extracted the word Successfully ....")
```

Output: -

```
textfile.txt
1    Apple is on the orange tablen under an umbrella.
```

```
Words starting with vowels: ['Apple', 'is', 'on', 'orange', 'under', 'an', 'umbrella.']
Extracted the word Successfully ....
```

Result: -

        Thus the all programs involve file handling reverses and stores content, copies content, and extracts and prints words starting with vowels has been done successfully.