

PYTHON PROGRAMMING INTERNSHIP PROJECT 5

Project Title: Text Reverser

Objective: The goal of this project is to create a simple Python program that reverses user input text.

Name: Aarya Ramchandra Tarphe

Batch: 5th February 2025

Duration: 3months

Code:

```
import os

def reverse_characters(text):

    return text[::-1]

def reverse_words(text):

    return ' '.join(text.split()[::-1])

def save_to_file(reversed_text):

    with open("reversed_text.txt", "w") as file:

        file.write(reversed_text)

    print("Reversed text saved to 'reversed_text.txt'.")

def main():

    while True:

        print("\nText Reverser Menu:")

        print("1. Reverse Character Order")

        print("2. Reverse Word Order")

        print("3. Exit")
```

```
choice = input("Enter your choice (1/2/3): ")

if choice == '3':
    print("Exiting program. Goodbye!")
    break

text = input("Enter a sentence: ").strip()

if not text:
    print("Error: Empty input. Please enter some text.")
    continue

if choice == '1':
    result = reverse_characters(text)
elif choice == '2':
    result = reverse_words(text)
else:
    print("Invalid choice. Please enter 1, 2, or 3.")
    continue

print("Reversed Text:", result)

save_option = input("Would you like to save the reversed text to a file? (y/n): ")
if save_option.lower() == 'y':
    save_to_file(result)

if __name__ == "__main__":
    main()
```

Output :

```
PS C:\Users\AARYA\OneDrive\desktop\Motioncut> &  
C:/Users/AARYA/AppData/Local/Microsoft/WindowsApps/python3.12.exe  
c:/Users/AARYA/OneDrive/desktop/Motioncut/textreverser.py
```

Text Reverser Menu:

1. Reverse Character Order
2. Reverse Word Order
3. Exit

Enter your choice (1/2/3): 2

Enter a sentence: please give me a cup of tea.

Reversed Text: tea. of cup a me give please

Would you like to save the reversed text to a file? (y/n): y

Reversed text saved to 'reversed_text.txt'.

Text Reverser Menu:

1. Reverse Character Order
2. Reverse Word Order
3. Exit

Enter your choice (1/2/3): 1

Enter a sentence: Sky is blue.

Reversed Text: .eulb si ykS

Would you like to save the reversed text to a file? (y/n): y

Reversed text saved to 'reversed_text.txt'.

Text Reverser Menu:

1. Reverse Character Order

2. Reverse Word Order

3. Exit

Enter your choice (1/2/3): 3

Exiting program. Goodbye!

PS C:\Users\AARYA\OneDrive\desktop\Motioncut>