# HAMDA HUSSAIN(059)

# Task 4 Documentation

This document provides complete documentation for Task 4. It includes all code, outputs, and detailed explanations for better understanding. The formatting follows the same structure as the Task 6 documentation.

## Explanation / Notes:

Question no.1

## Code:

import string  
  
def remove\_punctuations(text):  
 translator = str.maketrans('', '', string.punctuation)  
 cleaned\_text = text.translate(translator)  
 return cleaned\_text  
  
input\_string = "Hello!!! How's your day?? Fine, I hope... #GoodLuck123"  
print("Original String: ", input\_string)  
print("Cleaned String: ", remove\_punctuations(input\_string))

### Output:

Original String: Hello!!! How's your day?? Fine, I hope... #GoodLuck123  
Cleaned String: Hello Hows your day Fine I hope GoodLuck123

## Explanation / Notes:

Question no.2

## Code:

sentence = "Python makes programming easy and fun"  
words = sentence.split()  
n = len(words)  
for i in range(n):  
 for j in range(0, n - i - 1):  
 if words[j].lower() > words[j + 1].lower():   
   
 words[j], words[j + 1] = words[j + 1], words[j]  
  
sorted\_sentence = " ".join(words)  
  
print("Original Sentence:", sentence)  
print("Alphabetically Sorted Sentence:", sorted\_sentence)

### Output:

Original Sentence: Python makes programming easy and fun  
Alphabetically Sorted Sentence: and easy fun makes programming Python

## Explanation / Notes:

# Question 3. #

## Code:

str1 = "i am hamda"  
words = str1.split()  
words\_sorted = sorted(words)   
chars\_sorted = sorted(str1.replace(" ", ""))   
  
ascii\_sorted = sorted(str1)   
print("Original String:", str1)  
print("Sorted by Words:", " ".join(words\_sorted))  
print("Sorted by Characters:", "".join(chars\_sorted))  
print("Sorted by ASCII:", "".join(ascii\_sorted))

### Output:

Original String: i am hamda  
Sorted by Words: am hamda i  
Sorted by Characters: aaadhimm  
Sorted by ASCII: aaadhimm