**NEURAL NETWORKS AND DEEP LEARNING**

**ASSIGNMENT 2**

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**GITHUB LINK**: https://github.com/sravs2031/Neural-Networks-deep-learning-Assignment-2.git

**VIDEO LINK:**
https://drive.google.com/file/d/1QHtcDKmelmygToLkRlznbeZlK_eVJKrR/view?usp=drive_link

1)

```python
def fullname(firstname,lastname):
  fullname=firstname+lastname
  return fullname


def string_alternative(result):
  return result[::2]

if __name__ == '__main__':
  firstname=input('Enter firstname: ')
  lastname=input('Enter lastname: ')
  result = fullname(firstname, lastname)
  print(f'Fullname is: {result}')
  print(f'Alternate string: {string_alternative(result)}')
```

```
Enter firstname: Sravani
Enter lastname: Mannuru
Fullname is: Sravani Mannuru
Alternate string: SaaiMnuu
```

2)

```
sample_text = """This is Sravani
Neural Network course
Machine learning course"""

with open('input.txt', 'w') as file:
    file.write(sample_text)

with open('input.txt', 'r') as file:
    lines = file.readlines()

word_counts = {}
for line in lines:
    words = line.split()
    for word in words:
        word_counts[word] = word_counts.get(word, 0) + 1

print("Input:")
for line in lines:
    print(line.strip())

print("Word count:")
for word, count in word_counts.items():
    print(f"{word}: {count}")
```

```
with open('output.txt', 'w') as output_file:
    output_file.write("Input:\n")
    for line in lines:
        output_file.write(line)

    output_file.write("\nWord count:\n")
    for word, count in word_counts.items():
        output_file.write(f"{word}: {count}\n")
```

```
Input:
This is Sravani
Neural Network course
Machine learning course
Word count:
This: 1
is: 1
Sravani: 1
Neural: 1
Network: 1
course: 2
Machine: 1
learning: 1
```

3)

```
n = int(input("Enter number of element in list: "))
height_inches=[]
height_cm = []
for i in range(n):
  element = int(input(f"enter {i} element: "))
  height_inches.append(element)

for i in height_inches:
  height_cm.append(i*2.54)


list_comprehension_output = [i*2.54 for i in height_inches]
print(height_cm)
print(list_comprehension_output)
```

```
Enter number of element in list: 5
enter 0 element: 25
enter 1 element: 68
enter 2 element: 46
enter 3 element: 95
enter 4 element: 74
[63.5, 172.72, 116.84, 241.3, 187.96]
[63.5, 172.72, 116.84, 241.3, 187.96]
```