Neural Networks– AS2

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GitHub link: https://github.com/Manesh1712/ICP2/tree/main

Video link: https://drive.google.com/file/d/1UvFBnQkARCv9khVOAN8ztu9DtPOBMm8N/view?usp=drive_link

1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname function that should return the (full name).
   - For example:
   - First_name = “your first name”, last_name = “your last name”
   - Full_name = “your full name”

In [1]:
```
def Full_name(first_name, last_name):
    full_name = first_name + " " + last_name
    return full_name
fName= input("Enter your First Name : ")
lName= input("Enter your Last Name : ")
print(Full_name(fName, lName))
```

```
Enter your First Name : Manesh
Enter your Last Name : Nekkalapu
Manesh Nekkalapu
```

- Write function named “string_alternative” that returns every other char in the full_name string.
- Str = “Good evening” Output: Go vnn
  Note: You need to create a function named “string_alternative” for this program and call it from main function.

In [2]:
```
def string_alternative(string):
    return string[::2]
def main():
    print(string_alternative("Good Evening"))
if __name__ == "__main__":
    main()
```

```
Go vnn
```

2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output. o Finally store the output in output.txt file.
   Example:
   Input: a file includes two lines:
   Python Course
   Deep Learning
   Course Output:
   Python Course Deep
   Learning Course
   Word_Count:
   Python: 1
   Course: 2
   Deep: 1
   Learning: 1

```
In [3]:
with open('input.txt','r') as ip_file:
    lines=ip_file.read()
    word=lines.split()
    data=[]
    with open('output.txt','w') as op_file:
        for i in word:
            if i not in data:
                data.append(i)
                op_file.write(i+':'+str(word.count(i))+'\n')
op_file=open('output.txt','r')
print(op_file.read())
```

```
Python:1
Course:2
Deep:1
Learning:1
```

3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:
   1) Nested Interactive loop.
   2) List comprehensions
   Example: L1: [150,155, 145, 148]
   Output: [68.03, 70.3, 65.77, 67.13]

In [4]:

```
L1 = list(map(float, input().split()))
L2= []

for i in L1:
    L2.append(i*2.54)
print(L2)

L3=[i*2.54 for i in L1]
print(L3)
```

```
150 155 145 148
[381.0, 393.7, 368.3, 375.92]
[381.0, 393.7, 368.3, 375.92]
```