Neural Network Deep Learning (23442)

Assignment_1

1(a) Solution:-

Code:-

```
[ ]  string = input('Enter a string ')
     string = string[:-2]
     print(string[::-1])
```

Output:-

```
[ ]  string = input('Enter a string ')
     string = string[:-2]
     print(string[::-1])

     Enter a string python
     htyp
```

Explanation :- This Python code takes a user input string, removes the last two characters, and then prints the reversed version of the modified string. For example, if the input is "Hello World", the output will be "lroW oll".

2(a) Solution:-

Code:-

```
num1 = int(input("Enter first numbers "))
num2 = int(input("Enter second numbers "))

add = num1+num2
sub = num1-num2
mul = num1*num2
div = num1/num2

print(f"Addition of 2 numbers is {add} \nSubtraction of 2 numbers is {sub} \nmultiplication of 2 numbers is {mul} \nDivison of 2 numbers is {div}")
```

Output:-

```
Enter first numbers 8
Enter second numbers 4
Addition of 2 numbers is 12
Subtraction of 2 numbers is 4
multiplication of 2 numbers is 32
Divison of 2 numbers is 2.0
```

Explanation :- This Python code takes two integer inputs from the user, performs basic arithmetic operations (addition, subtraction, multiplication, and division), and then prints the results.

3(a) Solution:-

Code:-

```
[1]  sentence = input('Enter a sentence: ')
     words = sentence.split()
     for i in range(len(words)):
       if words[i] == 'python':
         words[i] = 'pythons'
     print(' '.join(words))
```

Output:-

```
Enter a sentence: python
pythons
```

Explanation :- This Python code takes a sentence as input, splits it into words, and then iterates through each word. If a word is "python", it replaces it with "pythons". Finally, it prints the modified sentence. For example, if the input sentence is "I love python programming", the output will be "I love pythons programming".

4(a) Solution:-

Code:-

```
[ ]  grade = int(input("Enter the grade between 0 and 100: "))
     if grade>100 or grade<0:
       print('Error! enter grade between 0 and 100')
     elif 100>=grade>=90:
       print("Grade is A")
     elif 89>=grade>=80:
       print("Grade is B")
     elif 79>=grade>=70:
       print("Grade is C")
     elif 69>=grade>=60:
       print("Grade is D")
     else:
       print('Grade is F')
```

Output:-

```
Enter the grade between 0 and 100: 34
Grade is F
```

Explanation :- This Python code takes a user input for a numeric grade between 0 and 100, checks the input for validity, and then assigns a corresponding letter grade based on the specified ranges. It prints an error message if the input is outside the valid range. For example, if the user enters 85, the output will be "Grade is B".