Github link:

https://github.com/v4varun45/NND_Assignment_01/blob/main/NND_Assignment%2001.ipynb

1a)

```python
In [1]: input_string = 'Python'
        print(input_string)

        new_string = list(input_string)
        print(new_string)

        del new_string[3:5]
        print(new_string)

        output_string = ''.join(reversed(new_string))
        print(output_string)

        Python
        ['P', 'y', 't', 'h', 'o', 'n']
        ['P', 'y', 't', 'n']
        ntyP
```

1b)

```python
In [2]: def arthmetic_operations(x,y):
            Addition = x + y
            print(f"Addition of {x} and {y} is: {Addition}")

            Substraction = x - y
            print(f"Substraction of {x} and {y} is: {Substraction}")

            Multiplication = x*y
            print(f"Multiplication of {x} and {y} is: {Multiplication}")

            if y==0:
                return("Cant divide by 0")
            else:
                Division = x/y
                print(f"Division of {x} and {y} is: {Division}")
```

```
['P', 'y', 't', 'h', 'o', 'n']
['P', 'y', 't', 'n']
ntyP
```

1b)

```python
In [2]: def arthmetic_operations(x,y):
            Addition = x + y
            print(f"Addition of {x} and {y} is: {Addition}")

            Substraction = x - y
            print(f"Substraction of {x} and {y} is: {Substraction}")

            Multiplication = x*y
            print(f"Multiplication of {x} and {y} is: {Multiplication}")

            if y==0:
                return("Cant divide by 0")
            else:
                Division = x/y
                print(f"Division of {x} and {y} is: {Division}")

        x = float(input("Enter the first number: "))
        y = float(input("Enter the second number: "))

        result = arthmetic_operations(x,y)

        Enter the first number: 6
        Enter the second number: 3
        Addition of 6.0 and 3.0 is: 9.0
        Substraction of 6.0 and 3.0 is: 3.0
        Multiplication of 6.0 and 3.0 is: 18.0
        Division of 6.0 and 3.0 is: 2.0
```

2)

```python
In [3]: def replace_sentence(sentence):
            After_replace = sentence.replace('python','pythons')
```

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Code

2)

```python
In [3]:    def replace_sentence(sentence):
               After_replace = sentence.replace('python','pythons')
               return After_replace

           sentence = input("Enter a sentence: ")
           result = replace_sentence(sentence)
           print(f"After_replace: {result}")
```

```
Enter a sentence: I love playing with python
After_replace: I love playing with pythons
```

3)

```python
In [4]:    def grade_calculation(score):
               if 90<= score <= 100:
                   return("A")
               elif 80 <= score <= 89:
                   return("B")
               elif 70 <= score <= 79:
                   return("C")
               elif 60 <= score <= 69:
                   return("D")
               elif 0 <= score <= 59:
                   return("F," + " Student must retake the subject again")
               else:
                   return("Invalid score")

           score = float(input("Enter the student percentage: "))
           if 0 <= score <= 100:
               Grade =  grade_calculation(score)
               print(f"Student grade is: {Grade}")
           else:
               print("Please enter the student percentage from 0 to 100")
```

```
Enter the student percentage: 92
Student grade is: A
```