```python
In [1]:   # Write a Python code to return your Python version

          import sys
          print(sys.version)
```

3.10.9 | packaged by Anaconda, Inc. | (main, Mar 1 2023, 18:18:15) [MSC v.1916 64 bit (AMD64)]

```python
In [2]:   #Write a Python code to declare variable id="513".
          #Print the following statement "customer id =513". [Don't use print("customer id

          id = "513"
          print('customer id = '+id)
```

customer id = 513

```python
In [3]:   #Run the following statement, why there is an error

          id=id+1

          #the error will occur because id is defined as a string
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[3], line 3
      1 #Run the following statement, why there is an error
----> 3 id=id+1

TypeError: can only concatenate str (not "int") to str
```

```python
In [4]:   #Convert the variable id into an integer, increment it by 1.
          #Assign the result to variable new_id.
          #Print the new_id

          new_id = int(id)+1
          print(new_id)
```

514

```python
In [5]:   #Write a Python code to print the following string in a specific format (see the
          # Twinkle, twinkle, little star,
          #    How I wonder what you are!
          #      Up above the world so high,
          #        Like a diamond in the sky.

          print('Twinkle, twinkle, little start \n\t How I wonder what you are! \n\t\tUp above the word so high,\n\t\t\tLike a diamond in th
```

```
      Twinkle, twinkle, little start
              How I wonder what you are!
                     Up above the word so high,
                            Like a diamond in the sky.
```

In [6]:
```python
#Givin the following string variable, # Print the first element in the string
course="Python for Data Science"
print(course[0])
```

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In [7]:
```python
# Print the element on the 13th index in the string
print(course[13])
```

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In [8]:
```python
# Find the length of string
len(course)
```

Out[8]: 23

In [9]:
```python
# Print the last element in the string [use negative index]
print(course[-1])
```

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In [10]:
```python
# Take the slice on variable course with only index 11 to index 14
print(course[11:14])
```

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In [12]:
```python
# Get every third element in the range from index 0 to index 20
print(course[0:20:3])
```

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In [14]:
```python
# Concatenate course string with ", AI & Development"
newString = course + ", AI & Development"
newString
```

Out[14]: 'Python for Data Science, AI & Development'

In [17]:
```python
# Replace all the spaces with (_). New string should looks like"Python_for_Data_S
import re
newString2 = newString.replace(" ", "_")
newString2
```

Out[17]: 'Python_for_Data_Science,_AI_&_Development'

```
In [20]:   # Convert all the characters in string to upper case
           newString3 = newString2.upper()
           newString3

Out[20]:   'PYTHON_FOR_DATA_SCIENCE,_AI_&_DEVELOPMENT'

In [ ]:

In [ ]:
```