Double-click (or enter) to edit

Question:Develop a Python script that showcases the basics learned, demonstrating your understanding of Python programming.

```
Creating Variable
```

```
Var1 = "Hello 3MTT"
print(Var1)
Hello 3MTT
```

Double-click (or enter) to edit

## Intuition Labelling

```
Male_Participants=28
Female_Participants=22
Total_participants =Male_participants+Female_Participants
print(Total_participants)
```

50

## Strings

Using a double quotation when using apostrophe

```
Var4 = "Python's Coding"
```

```
Introducing a Method
#Printing variable in upper case
Var4 = "Python's Coding"
Var4.upper()
      'PYTHON'S CODING'
#Writing a code to assign Variable
Fig1=15
Fig2=17
Fig3=Fig1+Fig2
Fig4=Fig1*Fig2
Fig5=Fig1/Fig2
print(Fig3)
      32
print(Fig4)
      255
print(Fig5)
      0.8823529411764706
 Displaying two different strings
#Writing a Variable
First_name='Maryam'
Last_name='Hussain'
Full_name1=First_name+Last_name
```

Full\_name2=(f'{First\_name} {Last\_name}')

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print(Var4)

Python's Coding

```
print(Full_name1)
      MaryamHussain
print(Full_name2)
      Maryam Hussain
 Checking the datatype of the variables
print(type(Total_participants))
      <class 'int'>
print(type(Fig3))
      <class 'int'>
print(type(Full_name1))
      <class 'str'>
print(type(Full_name2))
      <class 'str'>
 LIST
#Creating a list
#Initialize a list with a list function
Lst1=list()
Lst1
      []
#List with different datatype
Lst2=['string',True,70]
#Accessing a list
#Len function
len(Lst1)
      0
len(Lst2)
```

The above cell gave me an error, because Lst1 has no elements

Modifying Elements in a list

```
#Creating a new List
Lst3=['Aisha','Muhammad','Fatima','Ahmad','Maryam']
#Adding an element to the list
Lst3[3]='Khadija'
```

```
['Aisha', 'Muhammad', 'Fatima', 'Khadija', 'Maryam']
```

When you add an element in place of another element like i did in the above cell, it takes it's place by removing the initial element

```
#Inserting an element in the list
Lst3.insert(2,'Umar')

Lst3

['Aisha', 'Muhammad', 'Umar', 'Fatima', 'Khadija', 'Maryam']

#Inserting an element using-Append
Lst3.append('Abubakar')

Lst3

['Aisha', 'Muhammad', 'Umar', 'Fatima', 'Khadija', 'Maryam', 'Abubakar']
```

In inserting an element like in the above cell, the element is added without removing any of the elements