Experiment 2: Working with variables and data types in Python like integer, Boolean, string and list

Name : Umer R Shaikh   **Roll no. 44**   **Date : 24 / 01 / 2022**

Aim:

To perform operation with integer, Boolean, string and list

Objective:

The objective of this practical is to perform various functions with data types like integers Boolean, string and list and to understand the various operations performed with them.

Problem statement:

1] Define four valid variables of different data types like integer, Boolean, string and list. View the type of data stored within four valid variables. Define four invalid data types which will give you errors.

2] Convert two float numbers into integers and vice versa.

3] Define two strings. Concatenate the two strings.

Output:

1.

```
In [19]:  #PROBLEM NO1 Practical 2


          A_jersey_Number = 18
          is_he_the_captain = True
          His_name_is = "King Kohli"
          the_goat_of_cricket = ["Virat" , "Runmachine" , "King"]
```

```
In [20]:  A_jersey_Number
```

```
Out[20]:  18
```

```
In [21]:  is_he_the_captain
```

```
Out[21]:  True
```

```
In [22]:  His_name_is
```

```
Out[22]:  'King Kohli'
```

```
In [23]:  the_goat_of_cricket
```

```
Out[23]:  ['Virat', 'Runmachine', 'King']
```

```
In [24]:  type(A_jersey_Number)
```

```
Out[24]:  int
```

```
In [25]:  type(is_he_the_captain)
```

```
Out[25]:  bool
```

2.

```
In [21]:  is_he_the_captain
```

```
Out[21]:  True
```

```
In [22]:  His_name_is
```

```
Out[22]:  'King Kohli'
```

```
In [23]:  the_goat_of_cricket
```

```
Out[23]:  ['Virat', 'Runmachine', 'King']
```

```
In [24]:  type(A_jersey_Number)
```

```
Out[24]:  int
```

```
In [25]:  type(is_he_the_captain)
```

```
Out[25]:  bool
```

```
In [26]:  type(His_name_is )
```

```
Out[26]:  str
```

```
In [27]:  type(the_goat_of_cricket)
```

```
Out[27]:  list
```

3.

```
A_jersey_Number = 18
```

```
In [29]: a variable = 21

    Input In [29]
      a variable = 21
         ^
  SyntaxError: invalid syntax
```

```
In [30]: IS_he_the_Capta!n = FALSSE

    Input In [30]
      IS_he_the_Capta!n = FALSSE
              ^
  SyntaxError: invalid syntax
```

```
In [31]: his_Name_is = kohli

  ---------------------------------------------------------------------
  NameError                               Traceback (most recent call last)
  Input In [31], in <module>
  ----> 1 his_Name_is = kohli

  NameError: name 'kohli' is not defined
```

```
In [34]: HE_IS_the = [goat , "king"]

  ---------------------------------------------------------------------
  NameError                               Traceback (most recent call last)
```

4.

```
In [31]: his_Name_is = kohli

  ---------------------------------------------------------------------
  NameError                               Traceback (most recent call last)
  Input In [31], in <module>
  ----> 1 his_Name_is = kohli

  NameError: name 'kohli' is not defined
```

```
In [34]: HE_IS_the = [goat , "king"]

  ---------------------------------------------------------------------
  NameError                               Traceback (most recent call last)
  Input In [34], in <module>
  ----> 1 HE_IS_the = [goat , "king"]

  NameError: name 'goat' is not defined
```

5.

```
In [35]:
         # PROBLE NO3 PRACTICAL 2

         full_name = "Umer Shaikh"

         department = "Extc"

         full_name + department
Out[35]: 'Umer ShaikhExtc'
```

```
In [36]: full_name + " " + department
Out[36]: 'Umer Shaikh Extc'
```

```
In [ ]:
```