

ASSIGNMENT-4

DOMAIN:DATA SCIENCE WITH AI-ML

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➤ *Using python program to find the check if a tuples contains only unique elements.*

PROGRAM:

```
def check_unique_elements(tuple_data):  
    return len(tuple_data) == len(set(tuple_data))  
  
# Test the program  
tuple1 = (1, 2, 3, 4, 5)  
tuple2 = (1, 2, 2, 3, 4, 5)  
  
print(f"Tuple 1 contains only unique elements:  
{check_unique_elements(tuple1)}")  
print(f"Tuple 2 contains only unique elements:  
{check_unique_elements(tuple2)}")
```

OUTPUT:

Tuple 1 contains only unique elements: True

Tuple 2 contains only unique elements: False

“Another one example of an output:”

```
# Test the program  
tuple1 = (1, 2, 3, 4, 5, 7, 8, 9)  
tuple2 = (1, 2, 2, 3, 4, 5)
```

output:

Tuple 1 contains only unique elements: True

Tuple 2 contains only unique elements: False

“One more example of an output:”

```
# Test the program
tuple1 = (1, 2, 3, 3, 4, 5)
tuple2 = (1, 2, 2, 3, 4, 5)
```

output:

Tuple 1 contains only unique elements: False

Tuple 2 contains only unique elements: False