TEINSTEIN EDUCATION CODING ASSESMENT

The work assessment is done in the python version **3.8.5**

```
TERMINAL    PROBLEMS    OUTPUT    DEBUG CONSOLE
PS C:\Users\DELL\Desktop\python> python --version
Python 3.8.5
PS C:\Users\DELL\Desktop\python>
```

1. Write a Python programs to check if the entered number is an Armstrong number.

Solution:

```python
#function for the Armstrong number
def Armstrong():
    """This function is used for identifying if the user inputs is a Armstrong number or not."""
    x = int(input("Enter a number: "))
    sum = 0
    temp = x

    while (temp > 0):  #main logic
        r = temp % 10
        sum += r ** 3
        temp=temp // 10

    if (x == sum):  #if the sum and the user input is same
        print(x,"is an Armstrong number")
    else:
        print(x,"is not an Armstrong number")
```

```
Armstrong() #calling of the function
```

```
PS C:\Users\DELL\Desktop\python> & C:/Users/DELL/AppData/Local/Programs/Python/Python38-32/python.exe c:
/Users/DELL/Desktop/python/login/opencv/strin.py
Enter a number: 407
407 is an Armstrong number
PS C:\Users\DELL\Desktop\python> & C:/Users/DELL/AppData/Local/Programs/Python/Python38-32/python.exe c:
/Users/DELL/Desktop/python/login/opencv/strin.py
Enter a number: 153
153 is an Armstrong number
PS C:\Users\DELL\Desktop\python> & C:/Users/DELL/AppData/Local/Programs/Python/Python38-32/python.exe c:
/Users/DELL/Desktop/python/login/opencv/strin.py
Enter a number: 663
663 is not an Armstrong number
PS C:\Users\DELL\Desktop\python> []
```

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