HW Module1 Assignment

Assignment:

Exercise 1

```python
def ageCategory(age):
    if age < 5:
        return "Category -> I"
    elif age >= 5 and age <=10:
        return "Category -> II"
    elif age >= 11 and age <=20:
        return "Category -> III"
    elif age >= 21 and age <= 64:
        return "Category -> IV"
    elif age > 64:
        return "Category -> V"
    else :
        return "Enter a correct number"


if __name__ == "__main__":
    print(ageCategory(3))
    print(ageCategory(10))
    print(ageCategory(11))
    print(ageCategory(21))
    print(ageCategory(65))
```

```
 ~/Desktop/code-projects/187818-PythonFundamentalsandApplications
● > /usr/local/bin/python3 /Users/wl11291/Desktop/code-projects/1878
  Category -> I
  Category -> II
  Category -> III
  Category -> IV
  Category -> V
```

Exercise 2

```python
def ageCategory2(age):

    return ageCategory(age)


if __name__ == "__main__":
    print(ageCategory2(44))
```

```
~/Desktop/code-projects/187818-PythonFundamentalsandApplications
> /usr/local/bin/python3 /Users/wl11291/Desktop/code-projects/1878
Category -> IV
```

Exercise 3

```python
def ageCategory3(*profiles):

    return profiles[0]+ " "+ ageCategory(profiles[1]), profiles[2] + " "+ ageCategory(profiles[3])



if __name__ == "__main__":
    print(ageCategory2(44))
    print(ageCategory3('Jim', 22, 'Jane',3))
```

```
~/Desktop/code-projects/187818-PythonFundamentalsandApplications
> /usr/local/bin/python3 /Users/wl11291/Desktop/code-projects/1878
('Jim Category -> IV', 'Jane Category -> I')
```

Exercise 4

Testing exercise 2

```python
def ageCategory2(age):
    """

    >>> ageCategory2(44)
    'Category -> IV'

    """

    return ageCategory(age)
```

```
 ~/Desktop/code-projects/187818-PythonFundamentalsandApplications
> /usr/local/bin/python3 /Users/wl11291/Desktop/code-projects/1878
TestResults(failed=0, attempted=1)
```

Testing exercise 3

```python
def ageCategory3(*profiles):
    """
    >>> ageCategory3('Jim', 22, 'Jane',3)
    ('Jim Category -> IV', 'Jane Category -> I')
    """
    return profiles[0]+ " "+ ageCategory(profiles[1]), profiles[2] + " "+  ageCategory(profiles[3])
```

```
 ~/Desktop/code-projects/187818-PythonFundamentalsandApplications
> /usr/local/bin/python3 /Users/wl11291/Desktop/code-projects/18781
TestResults(failed=0, attempted=2)
```