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PYTHON PURE FUNCTION AND MODIFIERS

By HadoopExam Learning Resources

Note: These instructions should be used with the HadoopExam Apache Oozie: Professional Trainings. Where it is executed and you can do hands on with trainer.

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Content:

- Pure Function
- Modifiers

Pure function in a class: Let's create a user defined type named course_duration.

User Defined Type

```
class course_duration(object):
    """This object represent the duration of entire course in Hours:Minute:Seconds format"""

    hadoop_training=course_duration()
    course_duration.hours=10
    course_duration.minutes=35
    course_duration.seconds=44

    print 'Hadoop Training Course Duration is %d Hours : %d Minutes : %d Seconds'
    %(course_duration.hours, course_duration.minutes, course_duration.seconds)
```

Pure Functions: A function which does not affect existing object and create a new object and return new object is a pure function.

Adding Duration of two courses

```
def total_course_durations(c1,c2):
    training=course_duration()
    training.hours=c1.hours+c2.hours
    training.minutes=c1.minutes+c2.minutes
    training.seconds=c1.seconds+c2.seconds
    return training
```

Usage of Pure Function

```
spark_training=course_duration()
spark_training.hours=7
spark_training.minutes=55
spark_training.seconds=12

hadoop_training=course_duration()
course_duration.hours=10
course_duration.minutes=35
course_duration.seconds=44

total_duration=total_course_durations(hadoop_training,spark_training)
print 'Hadoop Training Course Duration is %d Hours : %d Minutes : %d Seconds'
%(total_duration.hours,total_duration.minutes,total_duration.seconds)

#It will print
Hadoop Training Course Duration is 17 Hours : 90 Minutes : 56 Seconds

#Original object is not touched and remain as it is.
```

```
print 'Hadoop Training Course Duration is %d Hours : %d Minutes : %d Seconds'  
%(course_duration.hours, course_duration.minutes, course_duration.seconds)
```

Modifiers: Changes are visible to the callers, you modifying the actual object.

```
def time_in_seconds(duration):  
    duration.minutes=duration.hours*60+duration.minutes  
    duration.seconds=duration.minutes*60+duration.seconds  
    duration.hours=0  
    duration.minutes=0  
  
time_in_seconds(total_duration)  
  
print 'Hadoop Training Course Duration is %d Hours : %d Minutes : %d Seconds'  
%(total_duration.hours,total_duration.minutes,total_duration.seconds)
```

By using the divmod() function, which does only a single division to produce both the quotient and the remainder, you can have the result very quickly with only two mathematical operations

```
def format_seconds(duration):  
    duration.minutes, duration.seconds = divmod(duration.seconds, 60)  
    duration.hours, duration.minutes = divmod(duration.minutes, 60)  
    print "%d:%02d:%02d" % (duration.hours, duration.minutes, duration.seconds)  
  
format_seconds(total_duration)
```

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