**CAP 776: PROGRAMMING IN PYTHON**

**CONTINUOUS ASSESSMENTS (C.A)-2**

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**Q.1. Construct a class name ‘Timed’ with data members (hours, mins, secs). Create some new classes name ‘hourConvertor’, ‘minConvertor’ and ‘secConvertor’ which is derived from class ‘Time’. Data members for these new classes are: total\_hours, total\_mins and total\_secs. And secs for any integer value (in days).**

**CODE: -**

class Time:

def \_\_init\_\_(self, days=0):

self.days = days

class HourConvertor(Time):

def \_\_init\_\_(self, days=0):

super().\_\_init\_\_(days)

self.total\_hours = self.days \* 24

class MinConvertor(Time):

def \_\_init\_\_(self, days=0):

super().\_\_init\_\_(days)

self.total\_mins = self.days \* 24 \* 60

class SecConvertor(Time):

def \_\_init\_\_(self, days=0):

super().\_\_init\_\_(days)

self.total\_secs = self.days \* 24 \* 60 \* 60

# Example usage:

days = 2 # Replace with the number of days you want to convert

hour\_converter = HourConvertor(days)

min\_converter = MinConvertor(days)

sec\_converter = SecConvertor(days)

print(f"Total hours for {days} days: {hour\_converter.total\_hours} hours")

print(f"Total minutes for {days} days: {min\_converter.total\_mins} minutes")

print(f"Total seconds for {days} days: {sec\_converter.total\_secs} seconds")

**OUTPUT: -**

