

Sample Program 12.1

About Objects

Problem statement. Write a program to manage one time-of-day object.

Solution.

```
class TimeOfDay:
    hour = None
    minute = None
    second = None

def getTimeOfDay():
    result = TimeOfDay()

    result.hour = int(input("Enter the hour "))
    result.minute = int(input("Enter the minute "))
    result.second = int(input("Enter the second "))

    return result

def outputTimeOfDay(t):
    print("{:02}".format(t.hour), end = ":")
    print("{:02}".format(t.minute), end = ":")
    print("{:02}".format(t.second))

a = getTimeOfDay()
outputTimeOfDay(a)
```

Problem statement. Write a program to manage 5 time-of-day objects.

Solution.

```
class TimeOfDay:
    hour = None
    minute = None
    second = None

def getTimeOfDay():
    result = TimeOfDay()

    result.hour = int(input("Enter the hour "))
    result.minute = int(input("Enter the minute "))
    result.second = int(input("Enter the second "))

    return result

def outputTimeOfDay(t):
    print("{:02}".format(t.hour), end = ":")
    print("{:02}".format(t.minute), end = ":")
    print("{:02}".format(t.second))

a = [TimeOfDay() for i in range(5)]
for i in range(len(a)): a[i] = getTimeOfDay()
for i in range(len(a)): outputTimeOfDay(a[i])
```

Problem statement. Write a program to manage 5 time-of-day objects.

Solution.

```
class TimeOfDay:
    hour = None
    minute = None
    second = None

def getTimeOfDay():
    result = TimeOfDay()

    result.hour = int(input("Enter the hour "))
    result.minute = int(input("Enter the minute "))
    result.second = int(input("Enter the second "))

    return result

def outputTimesOfDay(t):
    for i in range(len(t)):
        print("{:02}".format(t[i].hour), end = ":")
        print("{:02}".format(t[i].minute), end = ":")
        print("{:02}".format(t[i].second))

a = [TimeOfDay() for i in range(5)]
for i in range(len(a)): a[i] = getTimeOfDay()
outputTimesOfDay(a)
```