

## **objective**

1. Why does the name of local variable start with an underscore discouraged?
  - a) To identify the variable.
  - b) It confuses the interpreter.
  - c) It indicates a private variable of a class.
  - d) None of these.

Answer : c) It indicates a private variable of a class.

## **Coding**

1. Write a Python program to find the common elements between two lists.

Answer

```
l1=[]
l2=[]
l3=[]
n1=int(input("No of elements in list1: "))
for i in range(n1):
    l1.append(int(input()))
n2=int(input("No of elements in list2: "))
for i in range(n2):
    l2.append(int(input()))
for i in l1:
    if i in l2:
        l3.append(i)
print(set(l3))
```

## **Theory**

1. What is `__init__()` ?

Answer:

It is automatically called when a new instance of a class is created.

The `__init__()` method is used to initialize the object's attributes . The `__init__()` method does not return anything. It takes `self` as the first parameter, which refers to the current instance of the class

## **Aptitude**

1) A train travels at a speed of 60 km/h for 1 hour, 40 km/h for the next 30 minutes, and 80 km/h for the last 45 minutes. What is the average speed of the train for the entire journey?

a) 58 km/h

b) 62 km/h

c) 65 km/h

d) 70 km/h

Answer: b) 62 km/h