Lab 03: "Introduction to Simple Classes, Attributes and Methods"

Lab Task:

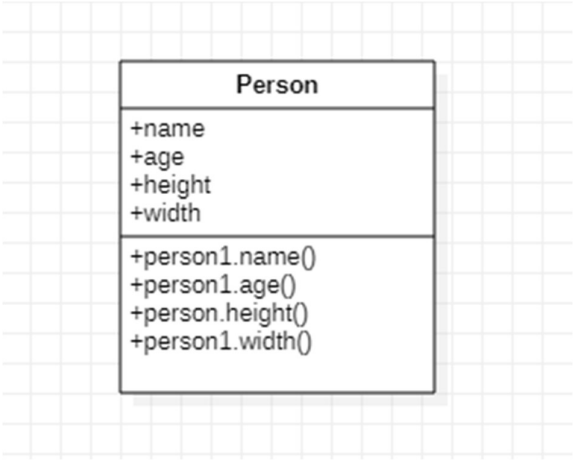
Exercise 01:

```
1 class Person:
2
3     def __init__(self, name, age, height, width):
4
5         self.name = name
6         self.age = age
7         self.height = height
8         self.width = width
9
10 person1 = Person("Bilal", 19, 10, 5)
11 print(person1.name,person1.age,person1.height,person1.width)
```

Output:

```
In [1]: runfile('C:/Users/LENOVO/.spyder-py3/temp.py', wdir='C:/Users/LENOVO/.spyder-py3')
Bilal 19 10 5
```

Class diagram:



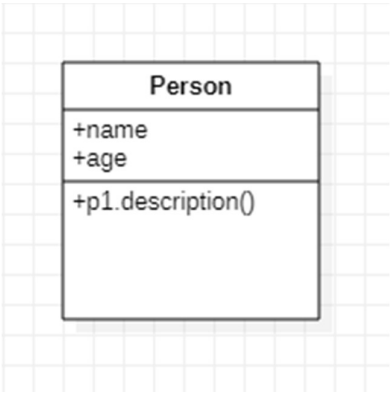
Exercise 02:

```
1  class Person:
2
3      def __init__(self, name, age):
4
5          self.name = name
6          self.age = age
7
8      def description(self):
9          print("About Me " + self.name, self.age)
10
11 p1 = Person("Bilal", 19)
12
13 p1.description()
```

Output:

```
In [2]: runfile('C:/Users/LENOVO/.spyder-py3/temp.py', wdir='C:/Users/LENOVO/.spyder-py3')
About Me Bilal 19
```

Class diagram:



Exercise 03:

```
# parent class
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    def printdetails(self):
        print(self.name, self.age)
        # child class

class Employee(Person):
    def __init__(self, name, age, post):
        # invoking the __init__ of the parent class
        Person.__init__(self, name, age)
        self.post = post
    def Details(self):
        print("Employee Data  Name age and post is ",self.name,self.age,
              self.post)

#creation of an object  or an instance
ob = Employee("ali", 35,"Clerk")
ob.Details()
ob.printdetails()
```

Output:

```
In [3]: runfile('C:/Users/LENOVO/E3.py', wdir='C:/Users/LENOVO')
Employee Data  Name age and post is  ali 35 Clerk
ali 35
```

Class diagram: