1. Write an iterator class reverse\_iter, that takes a list and iterates it from the reverse direction.
2. Write a function peep, that takes an iterator as argument and returns the first element and an equivalant iterator.
3. Define a class with a generator which can iterate the numbers, which are divisible by 7, between a given range 0 and n.
4. Write a Python class which has two methods get\_String and print\_String. get\_String accept a string from the user and print\_String print the string in upper case.
5. Write a Python class named Rectangle constructed by a length and width and a method which will compute the area of a rectangle.
6. Write the Person class so that a person’s age is calculated for the first time when a new person instance is created, and recalculated (when it is requested) if the day has changed since the last time that it was calculated.
7. Write a program that takes one or more filenames as arguments and prints all the lines which are longer than 40 characters.
8. Write a function findfiles that recursively descends the directory tree for the specified directory and generates paths of all the files in the tree.
9. Write a function to compute the number of python files (.py extension) in a specified directory recursively.
10. Write a function to compute the total number of lines of code in all python files in the specified directory recursively.
11. Write a function to compute the total number of lines of code, ignoring empty and comment lines, in all python files in the specified directory recursively.