Homework 2 – Model 2

Problem1

Write a program that combines two lists by alternatingly taking elements, e.g. [a,b,c], [1,2,3] →
[a,1,b,2,c,3].

Problem2

Write a function Rotate_right that ask the user to enter an array as input and return another
array with the same size as output, the program should shift the contents of each cell N places
to the right

The input output of the program should look like
Enter the array: [1 2 3 4 5]
Enter N: 2
The rotated array : 4 5 1 2 3

Problem3

Write a program that helps a professor to calculate the lowest grade of a group of students. The
program should ask the professor to enter the number of students and then ask him to enter
the grade of each student. Then, the program displays the average grade and the number of
the students who take lower than the average grade. At last, the program asks the user if he
want to repeat the process or not if yes it starts again if no the program will terminate.

Example of input/output:
Enter the number of students: 4
Enter the Grade: 91
Enter the Grade: 50
Enter the Grade: 30
Enter the Grade: 89
The average grade is: 65
Student number: 2, 3
Do you want to continue? (Y, N): Y
Enter the number of students: 5
Enter the Salary: 50
Enter the Salary: 25
Enter the Salary: 35
Enter the Salary: 60
Enter the Salary: 10
The average grade is: 36
Student number: 2, 3, 5
Do you want to continue? (Y, N): N