**Laboratory work 10**

**Exercise 1**

Using List Comprehensions create functions to calculate following output of the given number list – [4,-5,3,-2,0,10,-4,7,1]:

* return positive odd numbers (output: list)
* convert all elements to positive numbers (output: list)
* return number of positive odd numbers (output: int)
* return an average number (output: int)
* return an average number of positive numbers (output: int)
* return an average number of positive/negative numbers (output: int, int)
* replace all negative numbers to zero (output: list)

Note: You need to create seperated function for each given task.

**Exercise 2**

Write a function to calculate the sum of the n integers where n is

specified by the user e.g. if the user inputs a value of 10 for n your function should

calculate 1 + 2 + : : : + 9 + 10.

**Exercise 3**

Write a function to print out all the Fibonacci numbers using short

integer variables until the numbers become too large to be stored in a short integer

variable. Note: Fibonacci numbers are (1, 1,2,3,5,8,13, etc.).