Hacettepe University

Computer Engineering Department

Programming in  python

BBM103 Introduction to Programming Lab 1

Week 6

Fall 2017

Exercises

1. **Write a function that finds the *n*th largest element of the given list.**

```
Input: L = [1,5,6,4,2], n=3

Output: 4
```

2. **Write a function that determines if the given input string is a Palindrome or not.**

   - **A *palindrome* is a sequence of characters which reads the same backward as forward**

Exercises

3. Implement the following integer functions:

- a) Function ***celcius*** returns the Celsius equivalent of a Fahrenheit temperature.
- b) Function ***fahrenheit*** returns the Fahrenheit equivalent of a Celsius temperature.

$$F = \frac{9}{5}C + 32$$

Celsius to Fahrenheit Formula

Exercises

4. **Write a function *perfect* that determines if a number given as a parameter is a perfect number or not. Use this function in a program that determines and prints all the perfect numbers between 1 and 1000.**

- **Perfect Number:**
- **An integer number is said to be a *perfect number* if its factors, including 1 (but not the number itself), sum to the number. For example, 6 is a perfect number because 6 =1 + 2 + 3.**