



Hacettepe University

Computer Engineering Department

Programming in python

BBM103 Introduction to Programming Lab 1
Week 6

Fall 2018

Exercises

1. 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*



RACECAR

Exercises

2. 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

3. 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 $6 = 1 + 2 + 3$.