Computer Programming
Spring 2016

CSI2100-01 Lab 7 (part 1)

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Anouncement

- Please kindly take note that **all submission due dates are firm**.
- The YSCEC server's time is desicive.
  - Your laptop's time might disagree with the YSCEC server's time!
- You are advised to hand in a few minutes earlier to make sure you stay within the submission due date.
  - If you want to work until the last minute:
    - Hand in a preliminary solution 20min before the due date. This preliminary solution will be your ``fallback submission'' if you run out of time later on with your full solution.
- Only submissions uploaded on YSCEC by the due-date will be graded.

Outline

- Questions
- Programming Problems
- Deliverables, due-date and submission

Questions

You are kindly asked to submit the answers to the questions on the following page in a file named **README.txt**

Question 1: Textbook page 202, Exercise 1.

Question 2: Textbook page 243, Exercise 1.

Question 3: Textbook page 243, Exercise 2.

Programming Problems

Problem 1: Write a function that evaluates the polynomial

$$3x^5 + 2x^4 - 5x^3 - x^2 + 7x - 6$$

Your program should ask the user to enter a value for x, call the function to compute the value of the polynomial, and then display the value returned by the function.
Example:

```
Enter a value for x: 5
Polynomial for x=5: 10004
```

Note 1: you can assume that the user input is of type integer.
Note2: your function must start with the following line:

```
def evalPolynomial(x):
```

Problem 2: Exercise P3 from page 203 of the textbook.

Problem 3: Exercise P1 from page 244 of the textbook.

Problem 4: Problems M2 and M3 together

- change color each time a ball hits a wall
- leave a trail on each ball's path

Marking Criteria and Plagiarism

- Marking Criteria
  - Score is only given to programs that compile and produce the correct output with Python version 3.5.1.
  - Points are deducted for programs that are named wrongly. See the list of deliverables for the required file names.
  - Points are deducted for programs that produce warnings.
  - Points deductions on programming style: please provide comments in your code.
  - Please pay particular attention to the requested output format of your programs. Deviating from the requested output format results in points deductions.

- Plagiarism (Cheating)
  - This is an individual assignment. All submissions are checked for plagiarism.
  - Once detected, measures will be taken for **all** students involved in the plagiarism incident (including the ``source'' of the plagiarized code).

Deliverables

- Please prepare the files for the programming problems and questions. The names of the files, their due-dates and the archive file-name is given in the below table. Please refer to the Lab 2 specification on how to create zip archives.

Problem	File name	Due	Archive name
1	lab7_p1.py	Friday	lab7_part1_<student id>.zip
2	lab7_p2.py		
3	lab7_p3.py		
4	lab7_p4.py		
Questions	README.txt		

Submitting your archive

- You are asked to upload your archive for this lab on YSCEC.

- Due date for part 1: Friday, 23:00.
- Due date for part 2: Monday, 23:00.

- For instructions on how to upload a file on YSCEC, please see Lab 1.