

ETERNITY: NUMBERS

SOEN 6481 Software Systems Requirements Specification

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Introduction

- PiCal is a calculator able to switch mode between regular arithmetic calculation and scientific calculation regarding PI
- Friendly GUI, controllable calculation precision
- Able to handle calculation containing four fundamental operations, PI number, circular circumference and circular area with intended radius, and retrieve 10 latest stored calculation results

Critical Decision

- The $\arcsin(x)$ expression of Maclaurin series is applied to calculation PI
- Iteration times for calculation can be controlled
- Priority is indicated in both MoSCoW style and number style
- All acceptance tests regarding user stories are summarized in one matrix
- Thanks to team members for their valuable advice, particularly those from Adil and Maqsood

Lessons learned from the Project

- Detailed project schedule is important
- Adopting a change management process at the early stage
- Learn from past project failures and put those lessons learned into action.
- Running reviews regularly and looking at the successes and improvements needed throughout the process
- Using uniform template

Implementation

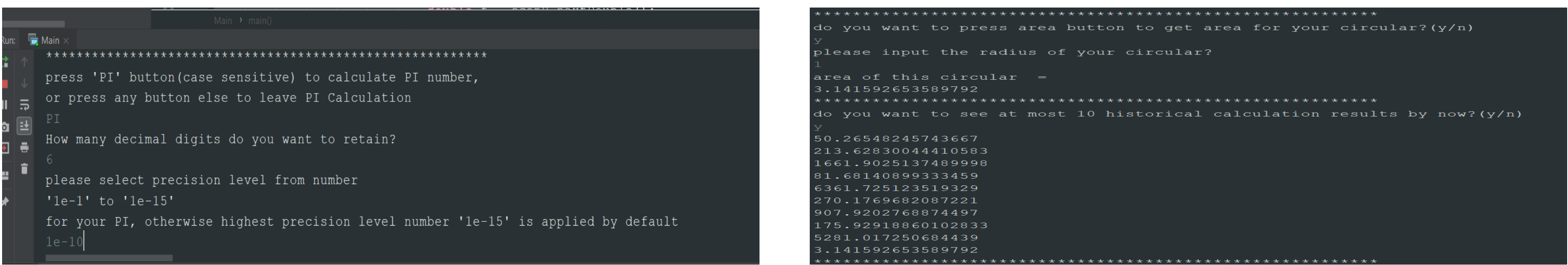


Figure 1. Left side, PI Precision Control Right side, 10 Latest Results Recall

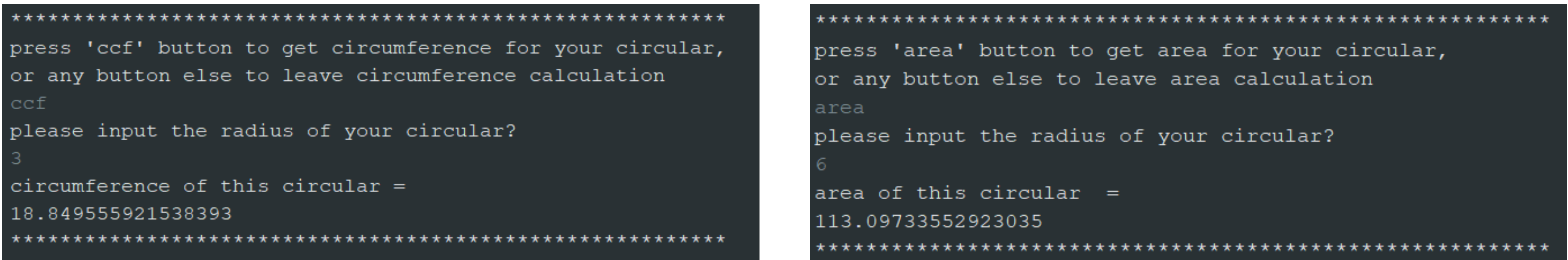


Figure 2. Left side, Circular Circumference Calculation. Right side, Circular Area Calculation.