

Mini-project

Form a group of 2 students. Each group will be given a topic. Submit a project plan. Implement and demonstrate the mini-project. Finally submit the report.

Timeline:

Week 7 – form project group, allocate topic

Week 9 – submit project plan

Week 10 – receive comments, revise project plan

Weeks 11–13 – project implementation

Week 13 – demonstration

Week 14 – submit report

Possible topics:

Light dimmer control

Display your name

Mastermind game

Access control with alarm

“Paper Scissors Stone” game

Electronic message board

Project plan:

Names and student ID numbers

Project topic

Objectives (in point form)

Functional specifications (in point form)

System framework (describe the functions, I/O being used, distinctive features,
block diagram, flow chart, or pseudo-code)

Responsible tasks (each group member)

Report:

Introduction

System description

Program description

Discussion

Conclusion

Appendix (program code)

Assessment:

Innovation 20%

Implementation (responsible tasks) 60%

Report 20%