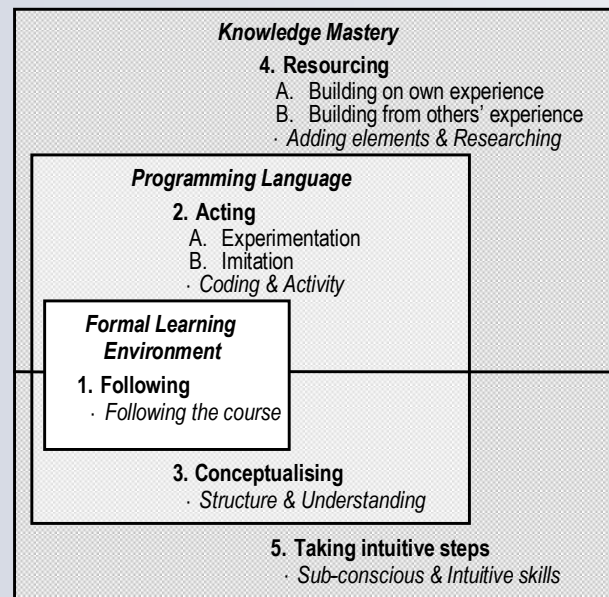


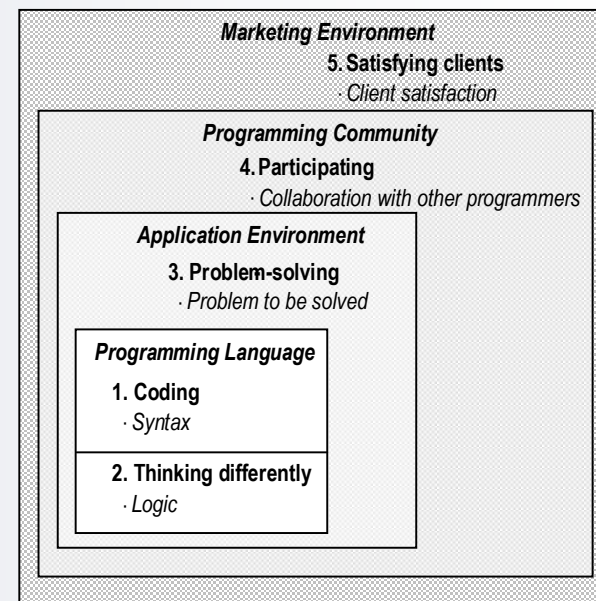
# MODELLING EXPERIENCES OF LEARNING TO PROGRAM

## Masters Students' Experiences of Learning to Program

### The Act of Learning to Program



### The Object of Learning to Program



# IMPLICATIONS FOR TEACHING PRACTICE

## How do you see learning to program?

*What statements do you agree with? (Please tick the ones that best describe how you see things.)*

**“Learning to program is ...**

**A. following a formal course.”**

*I learn to program by going to lectures and doing the required exercises.*

**B. actively producing programs.”**

*I learn to program by writing code, for example by copying and adapting others' programs, and I hope I will understand how they work later.*

**C. understanding the logic of programming.”**

*I learn to program by making sure I understand how a program works, for example by drawing diagrams.*

**D. gathering resources in order to build experience.”**

*I learn to program by gathering lots of programming examples and putting them in a library for future reference.*

**E. engaging intuitive abilities.”**

*I learn to program by stepping away from the problem and letting my intuition and subconscious work.*

**Other: Learning to program is \_\_\_\_\_**

Figure: Learning to program survey tool

# IMPLICATIONS FOR TEACHING PRACTICE

## How do you see programming?

*What statements do you agree with? (Please tick the ones that best describe how you see things.)*

**“Programming is ...**

**A. Sitting at a computer entering code.”**

*I program by sitting at a keyboard and typing in code.*

**B. Thinking in computer logic.”**

*I program by designing something that a computer can understand best.*

**C. A way of finding the solution to a problem in the wider world.”**

*I program by using a computer to find the solution to a problem in the real world.*

**D. Participating in the programming community.”**

*I program by producing something that can be easily understood and maintained by other programmers.*

**E. Satisfying the requirements of clients.”**

*I program by meeting the needs of the person who asked for it.*

**Other: Programming is \_\_\_\_\_**

Figure: Programming survey tool