PPL 2021 Assignment 1

1)

Explain the following programming paradigms:

(a) Imperative:

(b) Procedural:

(c) Functional:

How does the procedural paradigm improve over the imperative paradigm? How does the functional paradigm improve over the procedural paradigm?

2)

Write the most specific types for the following expressions:

(a) (x, y) => x.some(y)

(b) x => x.reduce((acc, cur) => acc + cur, 0)

(c) (x, y) => x ? y[0] : y[1]

3) Explain the concept of “abstraction barriers”.