**Exercise 01: Purchase a ticket at the cinema in roughly 10 steps. Two choices – child ticket (under 18) or adult ticket. Use a payment card, no change given. No concessions. Physical ticket printed.**

**Step 1: longhand English**

1. The customer approaches the counter.
2. The customer says which movie they would like to see.
3. The customer is asked which screening they would like to view.
4. The customer is asked which ticket type they would like.

5a. If the customer is under 18 they will be offered a child ticket.

6a. The customer is told how much a child ticket will cost.

5b. If the customer is over 18 they will be offered an adult ticket.

6b. The customer is told how much an adult ticket will cost.

1. The customer uses a payment card to pay for the ticket
2. The ticket is printed.
3. The customer leaves the counter.

**Step 2: convert to pseudocode**

1. START program “ticketPurchase”
2. INPUT “movieName” (= Shrek 2)
3. INPUT “screeningTime” (= 3:00pm)
4. INPUT “ticketType”
5. IF “ticketType” is child

6a. PROCESS “paymentAmount”

7a. INPUT “makePayment”

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6b. PROCESS “paymentAmount”

7b. INPUT “makePayment”

1. OUTPUT “displayTicket”
2. OUTPUT “printTicket”
3. END program “ticketPurchase”