Software Development - Assignment 1

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* Module: Software Development 1

# Flowchart

A diagram of a flowchart

Description automatically generated

# Pseudocode

BEGIN

DO

IMPORT Scanner

IMPORT Decimal format

INITALISE ticketCounter variable

INITALISE variables

SET ticketCounter to 0

PRINT prompts for user input on variables

INPUT user input for the prompts received

WHILE totalPeople is 0

DO

PRINT prompt for number of patrons

INPUT number of patrons

END WHILE

INITALISE ticketPrice = 10.50 X totalPeople

IF totalPeople > 6

ticketPrice = 9.45 X totalPeople

END IF

PRINT Ticket header of stars

PRINT movieName variable

PRINT PatronSurname variable

PRINT totalPeople

PRINT ticketPrice

PRINT Ticket footer of stars

INCREASE ticketCounter variable counter by 1

PRINT prompt for user to continue with Y/N

IF anotherTicket = Y then repeat

END

# Sample Test Data

|  |  |  |  |
| --- | --- | --- | --- |
| Test No. | Test Description | Sample test data | Expected outcome |
| 1 | Patron number > 0 | -1 | Message: Please enter valid number of patrons |
| 2 | Patron number < 0 | 1 | Stores data for later calculation |
| 3 | Ticket calculation if party < 6 | 5 | 5\*10.50 = 52.50 |
| 4 | Ticket calculation if party > 6 | 7 | 7\*9.45 = 66.15 |
| 5 | Another ticket loop | Y | Program reruns |
| 6 | Another ticket loop | N | Program ends + Message “total tickets processed” + ticketCount data |

# UI Screen shot

