

a i) The error is a logic Error as an incorrect ~~msg~~ message follows the same path ~~to~~ of shutting down the System, instead of recognising the error. (line 13)

ii) line 12 - 14 are replaced with the following

```
END IF
```

```
IF Message Header = System Status equals 'OFF' THEN
```

```
System Status = 'OFF'
```

```
ELSE
```

```
Print Error Message
```

```
END IF
```

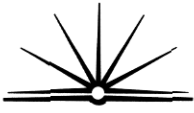
iii) The data types of each message class are

EVENT = String

TICKET = Integer

System Status = String.

~~and~~



iv) ~~EVENT~~

~~Message Header~~

Number Event Tickets Available	Number Tickets Sold	Result
10 10	2 2	8 available

Event Number	Last Event Number	Result
	⊙	
1	1	

b) ^{REPORT}
BEGIN ~~MAIN PROC~~

~~OPEN~~ OPEN TICKET

Index = 1

~~Ticket Array (index)~~

REPEAT

Ticket Array (index). Event Number = Ticket Event Number

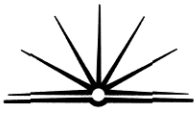
~~Ticket Array (index). Event Number = Ticket Event Number~~

Ticket Array (index). Event Name = Ticket Event Name

Ticket Array (index). Tickets Sold = Number Tickets Sold

Index = Index + 1

DO UNTIL TICKET EOF



CLOSE TICKET

SORT ARRAY

PRINT Tickets Sold

END ~~ARRAY~~ REPORT

BEGIN SORT ARRAY

Index = Ticket Array (Length)

REPEAT

IF Ticket Array (index) ~~>~~ Ticket Array (index-1) ~~THEN~~ THEN

Swap Ticket Array (index) with Ticket Array (index-1)

END IF

Index ~~increment~~ = Index - 1

DO UNTIL Index = 0

END SORT ARRAY

BEGIN Tickets Sold

~~Index = Ticket Array (length)~~

Index = Ticket Array (length)

Tickets = 0

REPEAT

Tickets ~~Array (Index)~~ = Ticket Array (index) + Tickets

Index = Index - 1

DO UNTIL ~~Index = 0~~ Index = 0

~~Print~~

~~Est~~ ~~Factor~~ Price =

Print Tickets

END REPORT

c) Online documentation is internal documentation such as electronic help files, balloon text within the program and tutorials. Any electronic form of documentation

Paper documentation is physical Hardcopies which are usually made up of ~~the~~ User Manuals, Troubleshooting Guides, and Reference Cards.

Paper documentation would be the most effective and easiest form of documentation as a quick reference Guide can ~~give~~ highlight common commands and controls. Paper documentation is portable and easy to use therefore being the most effective choice.