1.

1. ***IPO chart***

|  |  |  |
| --- | --- | --- |
| ***Input*** | ***Processing*** | ***Output*** |
| - visitor name  - body temperature | - Declare Integer visitorCount, normalBodycount, suspectedCovid, bodyTemperature to store the number of visitor, normal body temperature visitor, and number suspected covid  - Declare an Input File visitorFile and open Todaysvisitor.dat  - Read name and bodyTemperature for every visitor in Todaysvisitor.dat  - Add visitorCount by 1 for every visitor that exist while reading file  - Make a conditional statement that will add 1 to visitorCount if the visitor bodyTemperature is less than or equal 37.1 and will add 1 if the visitor bodyTemperature is greater than 37.1 for every visitor | - visitorCount  - normalBodycount  - suspectedCovid |

1. ***Pseudocode***

Module main(){

//*Declare variable store the total visitor, visitor with normal temperature, and visitor that suspected covid*

Declare Integer visitorCount, normalBodycount, suspectedCount

*//Declare an input file*

Declare InputFile visitorFile

*//Open the Todaysvisitor.dat*

Open visitorFile “**Todaysvisitor.dat**”

//*Declare variable that will store all the data in the file*

Declare Real bodyTemperature

Declare String name

//*Read all the items in the file*

While NOT eof (visitorFile)

Read visitorFile name, bodyTemperature

visitorCount++

If bodyTemperature <= 37.1 Then

normalBodycount++

Else

suspectedCount++

Close visitorFile

End While

Display “Today's Visitor Count by Body Temperature: ”

Display “Normal Body Temperature: ”, normalBodycount

Display “Body temperature suspected for covid: “, suspectedCount

Display “Total visitors: ”, visitorCount

End main()

}