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| --- | --- | --- |
| **Input** | **Process** | **Output** |
| startTime  elapsedTime | Processing Items:   1. getEndMinutes 2. getEndHours 3. getEndTime 4. endMinutes 5. endHours 6. endTime   Algorithm:  Bool enterTimeQuestion = getEnterTimeQuestion()  While(enterTimeQuestion = true)  startTime = getStartTime()  Split TimeSpan sts (“Hh:Mm”)  Int startHours = startTs.Hours  Int startMinutes = startTs.Minutes  Ask user for elapsedTime (Hh:Mm)  Read in elapsedTime  Split TimeSpan ets (“Hh:Mm”)  Int elapsedHours = elapsedTs.Hours  Int endMinutes = elapsedTs.Minutes  getEndMinutes()  getEndHours()  getEndTime()  Display endTime  getEnterTimeQuestion()  END WHILE  \_\_\_\_\_\_  getEnterTimeQuestion()  bool enterTimeQuestion = false  char userInput = N  Ask user if they want to enter time (Y/N)  If userInput = Y  Return enterTimeQuestion = true  Else  Return enterTimeQuestion = false  getStartTime()  Ask user for startTime (Hh:Mm)  Read in startTime  Return startTime;  getMinutesEnd(int startMinutes , int elapsedMinutes)  int endMinutes = 0  endMinutes = startMinutes + elapsedMinutes  return endMinutes  getHoursEnd(int startHours , int elapsedMinutes)  int endHours = 0  endHours = startHours + elapsedHours  return endHours  getEndTime(int endMinutes , int endHours)  string endTime = “”;  If (endMinutes >= 60) {  While (endMinutes >= 60)  endMinutes = endMinutes – 60  endHours = endHours + 1  END WHILE  endTime = endHours + “:” + endMinutes  return endTime | endTime |

