Source Code

```
    Start
1   Excel advanced: Open "C:\Users\DELL\Downloads\ai4i2020.xlsx"
2   Comment "Looping through each row in Excel sheet"
3   Loop : For each row in worksheet and assign to $row$
4       Comment "Extract last service date, interval, email, and machine name"
5       String: Assign $row[0]$ to $UDI$
6       Message box "UDI: $UDI$"
7       String: Assign $row[1]$ to $productID$
8       Message box "PID: $productID$"
9       String: Assign "$row[2]$" to $type$
10      String: Assign $row[3]$ to $airTemp$
11      String: Assign $row[4]$ to $processTemp$
12      String: Assign $row[5]$ to $rpm$
13      String: Assign $row[6]$ to $torque$
14      String: Assign $row[7]$ to $toolWear$
15      String: Assign $row[8]$ to $failure$
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16      String: Assign $row[9]$ to $lastServiceDateStr$
17      String: Assign $row[11]$ to $email$
18      Message box "Last Service Date: $lastServiceDateStr$"
19      Comment "Convert service date string to datetime"
20      Datetime: Assign $lastServiceDateStr$ with format "dd-MM-yyyy" to $lastServiceDate$
21      Comment "calculating interval"
22      String: To number Convert string $rpm$ to a number and assign it to number variable $numRpm$
23      String: To number Convert string $torque$ to a number and assign it to number variable $numTorque$
24      String: To number Convert string $toolWear$ to a number and assign it to number variable $numWear$
25      String: Trim $type$ and assign the result to $cleantype$
26      NumberUtils: Calc Calculate Expression
27      Number: To string convert $tempInterval$ to a string datatype and assign output to $tempIntervalNum$
28      Message box "interval : $tempIntervalNum$"
29      Comment "Add interval to get next service date"
30      Datetime: Add $tempInterval$ Days to $lastServiceDate$ and assign result to $nextServiceDate$
31      Datetime: To string Convert $nextServiceDate$ and assign result to $nextServiceDateStr$
32      Message box "next service date $nextServiceDateStr$"
33      Datetime: Subtract 7 Days from $nextServiceDate$ and assign result to $reminderDate$
34      Datetime: Add 5 Days to $nextServiceDate$ and assign result to $overdueDate$
35      Datetime: Assign $System:Date$ to $todayDate$
36      Message box "checking due date"
37      Comment "Compare with today's date"
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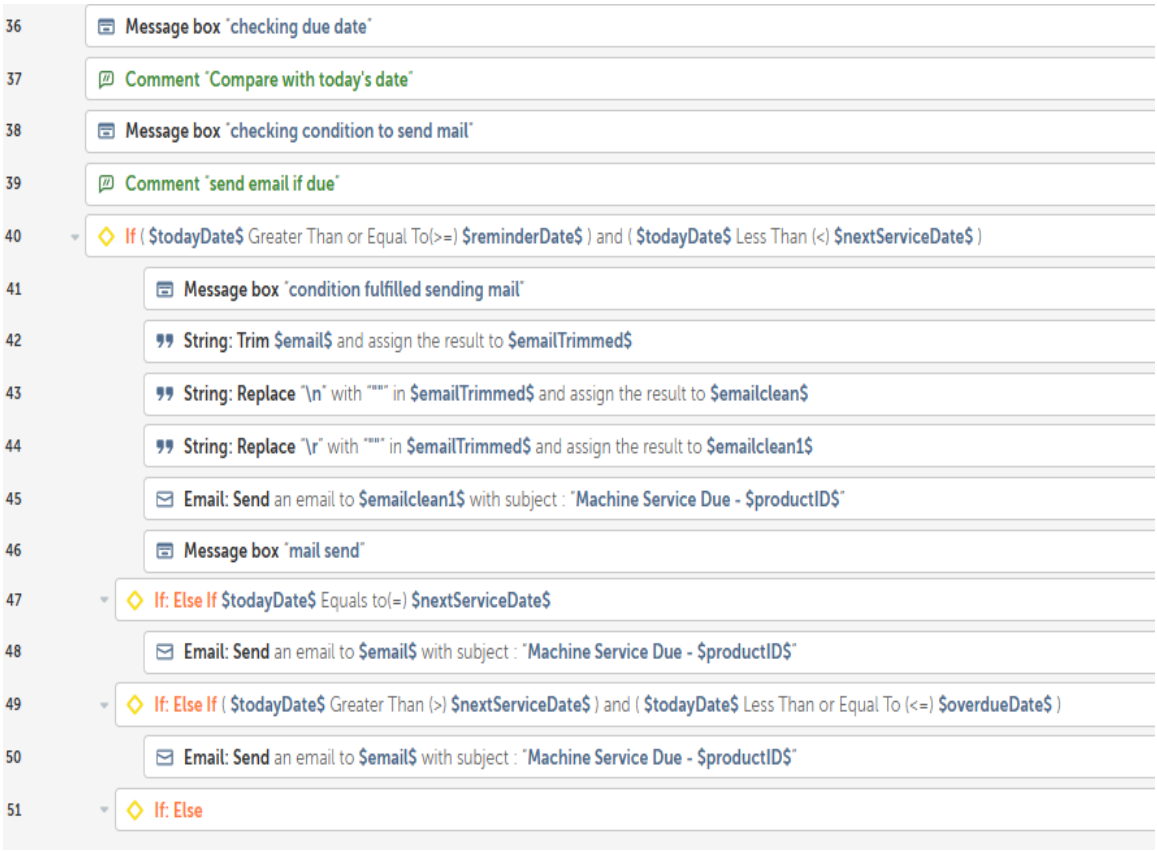
36 Message box "checking due date"
37 Comment "Compare with today's date"
38 Message box "checking condition to send mail"
39 Comment "send email if due"
40 If ($todayDate$ Greater Than or Equal To(>=) $reminderDate$) and ($todayDate$ Less Than (<) $nextServiceDate$)
41 Message box "condition fulfilled sending mail"
42 String: Trim $email$ and assign the result to $emailTrimmed$
43 String: Replace "\n" with "" in $emailTrimmed$ and assign the result to $emailclean$
44 String: Replace "\r" with "" in $emailTrimmed$ and assign the result to $emailclean1$
45 Email: Send an email to $emailclean1$ with subject : "Machine Service Due - $productID$"
46 Message box "mail send"
47 If: Else If $todayDate$ Equals to(=) $nextServiceDate$
48 Email: Send an email to $email$ with subject : "Machine Service Due - $productID$"
49 If: Else If ($todayDate$ Greater Than (>) $nextServiceDate$) and ($todayDate$ Less Than or Equal To (<=) $overdueDate$)
50 Email: Send an email to $email$ with subject : "Machine Service Due - $productID$"
51 If: Else