Exception and error handing is very important to include in a program. Programs are designed and created with certain data in mind, and programming is done based on that data. However, issues can arise when our programs encounter data that was not planned for. This was demonstrated to us all while attempting to complete Program 5 a few weeks ago. The data file we were processing contained names and a F﻿ICO score for us to read, process, and determine the approval/interest rate﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿. We wrote our programs expecting a number as a FICO score, however the file for "Joe" had the string "64c" instead of an integer. This caused our programs to crash. Applying this week's lesson to that program, a solution can be to use a Try/Except statement in the code as follows:

**def** **getApproval**(fico):

*## Function to take FICO score as input and*

*## calculate if loan is approved or not.*

*## Returns interest rate*

**try**:

**if** fico >= 760: *# Determine interest rate based on FICO score*

rate = '3.080%'

**elif** fico >= 700:

rate = '3.302%'

**elif** fico >= 680:

rate = '3.479%'

**elif** fico >= 660:

rate = '3.693%'

**elif** fico >= 640:

rate = '4.123%'

**elif** fico >= 620:

rate = '4.669%'

**else**:

rate = 'Denied' *# Loan not approved if FICO is < 620*

**except**:

rate = 'ERROR'

**return** (rate)