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AC3 Documentation

Prog 1700

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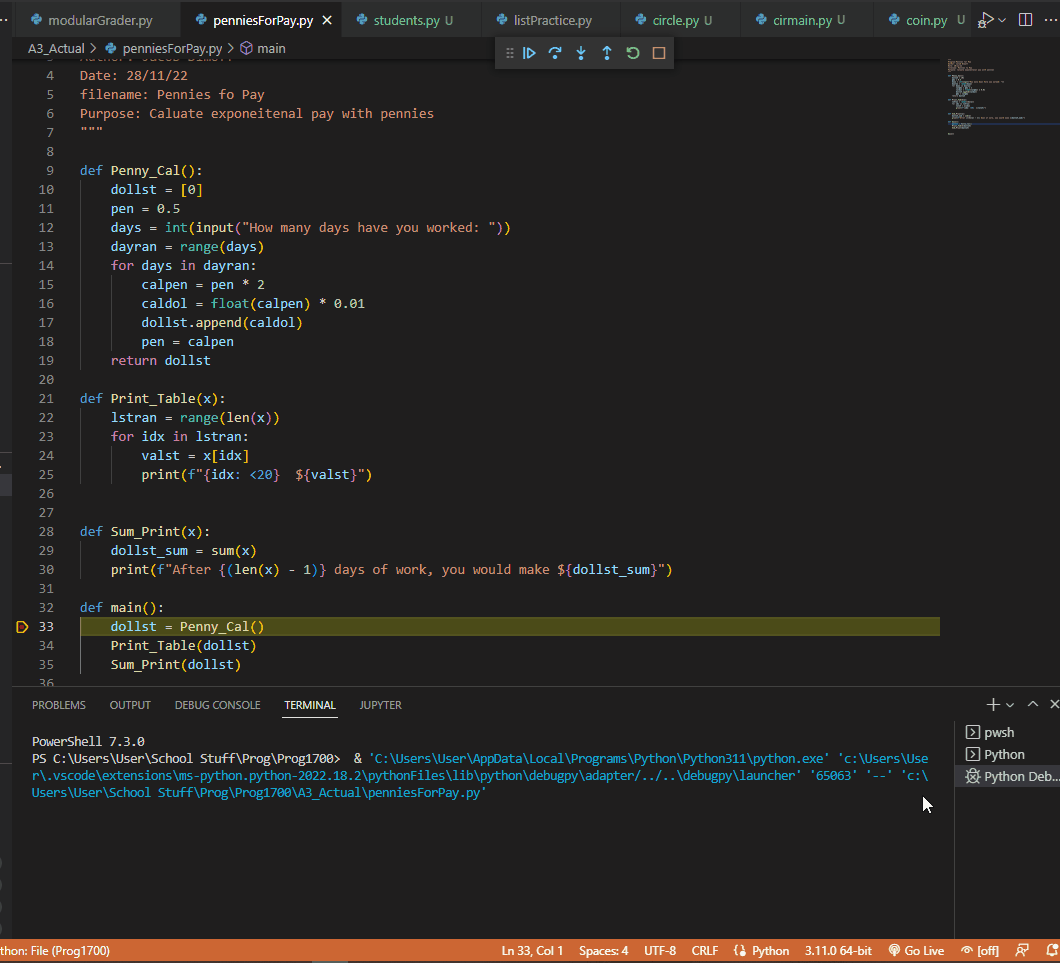
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# Part 1.

## 1.

Run back time



## 2.

Run back

A screenshot of a computer

Description automatically generated with medium confidence

# Part 2

## Hierarchy Chart

Graphical user interface, diagram, PowerPoint

Description automatically generated

## Input Output Chart

|  |  |  |
| --- | --- | --- |
| Input displayInstructions(): | Process | Output/Return |
| None | Print Instructional String | Instruction String |

|  |  |  |
| --- | --- | --- |
| Input classOrPerson(): | Process | Output/Return |
| None | Prompt user for input to determine if the average is for a class or person  If the user doesn’t input one or two, prompt for an answer  Else add to control var and exit loop. | cvp variable (1 or 2)  printed(error) |

|  |  |  |
| --- | --- | --- |
| Input validateGrade(x): | Process | Output/Return |
| x = grd | Checks grd.  If  By verifying data type.  Compares data to alpha and “Alpha and numeric” | Explanation printed string if x = -?  Error message if the unaccepted value  Exit message printed  All these return var = false  If data type accepted var = True  Var = ggbool |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| x = grd | Checks grades in a range | Return Var = neobool  True if in range  Else false |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| None | Case grdlst to list, and grd into none  Start while loop that ends when grd = exit  Prompt user for grd input  Validates grd with validateGrade which returns a bool.  If true pass grd as a float and check grd with ranCheck.  If true, append grd into grdlst | Return grdlst |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| x = grdlst | Sum grdlst  The average sum of grdlst / its own length returns grdavg | Return grdavg |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| x = cvp | Checks if cvp = 1 | Return printed state. Differs between 1 and 2 |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| x = grdavg | Print grdavg | Return printed string of grdavg |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| None | Prompt user to determine further use.  If yes, the loop continue  If no, the loop ends  If the answer is not accepted, prompt the user again. | Return convar |

|  |  |  |
| --- | --- | --- |
| Input | Process | Output/Return |
| none | Cast control variable to one  Start while statement controlled by convar  Call for cvp value with classOrPerson.  Call for grdlst with getGrades()  Calculate Average with calculateAvg  Check cvp with resluType  Input grdavg into displayResults  Call convarLoop to determine convar  If the loop ends print the exit statement. | Printed closing statement. |