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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Number | Test Scenario | Test Case | Test Data Type | Test Data | Expected Result | Actual Result | Comments | Result of Correction |
| *Starts at 1* | *What’s being checked*  *e.g. Calculate Wage* | *What part of option 1 is being checked e.g. only accepts whole numbers* | *Normal/abnormal/extreme* | *Data to be used in test* | *What you expect to happen* | *What actually happened* |  |  |
| 1 | Test coursework mark is valid between 0 and 60 | Enter valid number 10 | Normal | 10 | Input accepted. User promoted to enter prelim mark | Input accepted. User promoted to enter prelim mark |  |  |
|  |  | Enter valid number 0 | Extreme | 0 | Input accepted. User promoted to enter prelim mark | Input accepted. User promoted to enter prelim mark |  |  |
|  |  | Enter valid number 60 | Extreme | 60 | Input accepted. User promoted to enter prelim mark | Input accepted. User promoted to enter prelim mark |  |  |
|  |  | Enter invalid number -1 | Abnormal | -1 | Input not accepted. User prompted to enter coursework mark again. | Input not accepted. User prompted to enter coursework mark again. |  |  |
| 2 | Test prelim mark is valid between 0 and 90. | Enter valid number 45 | Normal | 45 | Input accepted. Print Grade. | Input accepted. Print Grade. |  |  |
|  |  | Enter valid number 90 | Extreme | 90 | Input accepted print grade | Input accepted print grade | During this test I noticed that the a ‘no award’ grade was outputted for a combined percentage of 60% which is incorrect.  Note: coursework mark entered was 0. | Using >= and <= instead of = resulted in expected output |
|  |  | Enter invalid number 91 | Abnormal | 91 | Input not accepted. User prompted to enter prelim mark again. | Input not accepted. User prompted to enter prelim mark again. |  |  |
| 3 | Check grade | Check to see if grade >=70 | Normal | Combination of coursework mark = 24 and prelim mark = 90  76% | Print A | Print A |  |  |
|  |  | Check to see if grade >=70 | Extreme | Combination of coursework mark = 15 and prelim mark = 90  70% | Print A | Print A |  |  |
|  |  | Check to see if grade is >=60 OR <=69 | Extreme | Combination of coursework mark = 0 and prelim mark = 90  60% | Print B | Printed Grade = No Award |  |  |
|  |  | Check to see if grade is >=60 OR <=69 | Normal | Combination of coursework mark = 9 and prelim mark = 90  66% | Print B | Print B |  |  |
|  |  | Check to see if grade is >=50 OR <= 59 | Extreme | Combination of coursework mark = 0 and prelim mark = 75  50% | Print C | Printed Grade = No Award | The issue seems to be caused when coursework mark = 0  Correction: need to add >= symbol into code instead of only = | Using >= and <= instead of = resulted in expected output |
|  |  | Check to see if grade is >=50 OR <= 59 | Normal | Combination of coursework mark = 60 and prelim mark = 21  54% | Print C | Print C |  |  |
|  |  | Check to see if grade is >=45 OR <= 49 | Extreme | Combination of coursework mark = 60 and prelim mark = 13.5  49% | Print D | Value Error: invalid literal for int() with base 10: '13.5' | No way to test extreme values of 45 or 49 without using float.  Correction:  Change int() to float() | Type casting as float instead of int worked |
|  |  | Check to see if grade is >=45 OR <= 49 | Normal | Combination of coursework mark = 60 and prelim mark = 12  48% | Print D | Print D |  |  |
|  |  | Check to see if grade is < 45 | Extreme | Combination of coursework mark = 60 and prelim mark = 7.5  45% | Print no award | Value Error: invalid literal for int() with base 10: '7.5' | Same as before. | Type casting as float instead of int worked |
|  |  | Check to see if grade is < 45 | Normal | Combination of coursework mark = 60 and prelim mark = 6  44% | Print no award | Print no award |  |  |