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CMIS 102 6982

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**Design**

#Welcome--

print('\nWelcome to CMIS Gradbook!\t')

def name\_grade(student\_name):

#Input--

discussion = int(input("What is {}'s discussion grade score?: ".format(student\_name)))

quiz = int(input("What is {}'s quiz grade score?: ".format(student\_name)))

assignment = int(input("What is {}'s assignment grade score?: ".format(student\_name)))

return discussion \* 0.2 + quiz \* 0.5 + assignment \* 0.3

#Output--

def main():

student\_names = ["Harry", "Hermione", "Ron", "Draco"]

student\_grades = []

for student\_name in student\_names:

student\_grade = name\_grade(student\_name)

student\_grades.append(student\_grade)

print("{}'s average is: {}".format(student\_name, student\_grade))

head\_of\_class = max(student\_grades)

student\_index = student\_grades.index(head\_of\_class)

#Highest grade

print("{} has the highest grade: {}".format(student\_names[student\_index], head\_of\_class))

# Execute

main()

**Test Plan/Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Test 1*** | ***Discussion*** | ***Quiz*** | ***Assignment*** | ***Final Grade*** |
| **Harry** | **85** | **88** | **93** | **88.9** |
| **Hermione** | **100** | **78** | **98** | **88.4** |
| **Ron** | **88** | **85** | **72** | **81.7** |
| **Draco** | **58** | **69** | **78** | **69.5** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Test 2*** | ***Discussion*** | ***Quiz*** | ***Assignment*** | ***Final Grade*** |
| **Harry** | **78** | **82** | **96** | **85.4** |
| **Hermione** | **100** | **100** | **100** | **100** |
| **Ron** | **91** | **73** | **86** | **80.5** |
| **Draco** | **88** | **92** | **75** | **86.1** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Test 3*** | ***Discussion*** | ***Quiz*** | ***Assignment*** | ***Final Grade*** |
| **Harry** | **89** | **99** | **76** | **90.1** |
| **Hermione** | **85** | **93** | **91** | **90.8** |
| **Ron** | **96** | **100** | **88** | **95.6** |
| **Draco** | **88** | **100** | **87** | **93.6** |

**Test 1**

Graphical user interface, text, application

Description automatically generated

**Test 2**

**Graphical user interface, text, application

Description automatically generated**

**Test 3**

**Graphical user interface, text, application

Description automatically generated**