

Laboratory Activity 4

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Course/Section: A11

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Problem:

Repeat the following Activities but use functions wherever possible and create at least 1 Module to be integrated to each program.

Additionally, the program must loop until the input for the name is "End"

Activity 1 - 4

Activity 2 - 1

Activity 2 - 3

Code:

[Below]

Output:

```
1. Activity 1 - 4
2. Activity 2 - 1
3. Activity 2 - 3
Type [End] to quit

Enter Selection: █
```

#1

```
enter name: Jayvee
enter Age: 19

Hello Jayvee, you are currently 19 years old
You were born on 2002
By 2102 you will be 100 years old
You will have to wait 81 years to be 100 years old
```

#2

```
enter Fullname: Jayvee N Mapote  
Enter Birthyear: 2002
```

```
Hi Jayvee N Mapote. You can vote for the 2022 Presidential elections.
```

#3

```
enter Name: Jayvee  
enter Prelim Grade: 100  
enter Midterm Grade: 100  
enter finals Grade: 100  
enter Quiz1 Grade: 50  
enter Quiz2 Grade: 50  
enter Quiz3 Grade: 50  
enter Assignment1 Grade: 25  
enter Assignment2 Grade: 25
```

```
Hi Jayvee. Your final grade is 100. Your equivalent grade is 1.00. You Passed the course.
```

Google Drive\SharePoint Link:

<https://drive.google.com/drive/folders/10hnCDNaeBX0Ob0ELMv8HOeak9qJtKK9R?usp=sharing>

```
Activity 4 > Activity4.py > Age
1 import datetime
2 #Jayvee N Mapote
3 #Activity 4
4 #A11
5 def ending():
6     exit()
7 def Age():
8     a = str(input("enter name: "))
9     b = int(input("enter Age: "))
10    y = int(datetime.datetime.now().strftime("%Y"))
11    x = y-b
12    z = 100 - b + y
13    k = z - y
14    message = 'Hello %s, you are currently %d years old\nYou were born on %d\nBy %d you will be 100 years old\nYou will have to wait %d years to be
15    print(" ")
16    print(message)
17 def Voting():
18     a = str(input("enter Fullname: "))
19     b = int(input("Enter Birthyear: "))
20     y = int(datetime.datetime.now().strftime("%Y"))
21     x = y-b
22     z = x - 6
23
24     if x >= 18 and z >=18:
25         print('\nHi %s. You can vote for the 2016 Presidential elections.' %(a))
26     elif x >= 18 and z < 18:
27         print('\nHi %s. You can vote for the 2022 Presidential elections.' %(a))
28     else:
29         print('\nHi %s. You can't vote yet for both elections. Register on Year' %(a))
30 def Grading_System():
31     try:
32         name = str(input("enter Name: "))
33         prelim = int(input("enter Prelim Grade: "))
34         if prelim > 0 and prelim <= 100:
35             midterm = int(input("enter Midterm Grade: "))
36             if midterm > 0 and midterm <= 100:
37                 finals = int(input("enter finals Grade: "))
38                 if finals > 0 and finals <= 100:
39                     quizzes1 = int(input("enter Quiz1 Grade: "))
40                     if quizzes1 > 0 and quizzes1 <= 50:
41                         quizzes2 = int(input("enter Quiz2 Grade: "))
42                         if quizzes2 > 0 and quizzes2 <= 50:
43                             quizzes3 = int(input("enter Quiz3 Grade: "))
44                             if quizzes3 > 0 and quizzes3 <= 50:
45                                 ass1 = int(input("enter Assignment1 Grade: "))
46                                 if ass1 > 0 and ass1 <= 25:
47                                     ass2 = int(input("enter Assignment2 Grade: "))
48                                 else:
49                                     raise ValueError
50                             else:
51                                 raise ValueError
52                         else:
53                             raise ValueError
54                     else:
55                         raise ValueError
56                 else:
57                     raise ValueError
58             else:
59                 raise ValueError
60         else:
61             raise ValueError
62
63     except ValueError:
64         print("\nYou entered wrong value!")
65
66     try:
67         exam1 = (prelim/100)*20
68         exam2 = (midterm/100)*20
69         exam3 = (finals/100)*20
70         quiz1 = (quizzes1/50)*10
71         quiz2 = (quizzes2/50)*10
72         quiz3 = (quizzes3/50)*10
73         assignment1 = (ass1/25)*5
74         assignment2 = (ass2/25)*5
75         x = (exam1+exam2+exam3+quiz1+quiz2+quiz3+assignment1+assignment2)
76
77         if x > 96 and x <= 100:
78             print('\nHi %s. Your final grade is %d. Your equivalent grade is 1.00. You Passed the course.' %(name, x))
79         elif x >= 91.51 and x <= 96:
80             print('\nHi %s. Your final grade is %d. Your equivalent grade is 1.25. You Passed the course.' %(name, x))
81         elif x >= 87.01 and x <= 91.50:
82             print('\nHi %s. Your final grade is %d. Your equivalent grade is 1.50. You Passed the course.' %(name, x))
83         elif x >= 82.51 and x <=87:
84             print('\nHi %s. Your final grade is %d. Your equivalent grade is 1.75. You Passed the course.' %(name, x))
85         elif x >= 78.01 and x <= 82.50:
86             print('\nHi %s. Your final grade is %d. Your equivalent grade is 2.00. You Passed the course.' %(name, x))
87         elif x >= 73.51 and x <= 78:
88             print('\nHi %s. Your final grade is %d. Your equivalent grade is 2.25. You Passed the course.' %(name, x))
89         elif x >= 69.01 and x <= 73.50:
90             print('\nHi %s. Your final grade is %d. Your equivalent grade is 2.50. You Passed the course.' %(name, x))
91         elif x >= 64.51 and x <= 69:
92             print('\nHi %s. Your final grade is %d. Your equivalent grade is 2.75. You Passed the course.' %(name, x))
93         elif x >= 60 and x <= 64.50:
94             print('\nHi %s. Your final grade is %d. Your equivalent grade is 3.00. You Passed the course.' %(name, x))
95         elif x < 60:
96             print('\nHi %s. Your final grade is %d. Your equivalent grade is 5.00. You failed the course.' %(name, x))
97         else:
98             print("error")
99     except:
100         print("\n\n")
101         Grading_System()
102
103 while True:
104     print(
105         "1. Activity 1 - 4\n" +
106         "2. Activity 2 - 1\n" +
107         "3. Activity 2 - 3\n" +
108         "Type [End] to quit\n")
109
110     selection = input("Enter Selection: ")
111
112     print()
113     #The selection from the program
114     {"1":Age,
115      "2":Voting,
116      "3":Grading_System,
117      "End":ending
118     }[selection]()
119
120     print()
```