

Component C. Personalized Project Reference.**Procedure:**

i.

```
68 def findavg(category):
69     num = 0
70     lettergrade = 'X'
71     for i in range(len(category)):
72         num = num + float(category[i])
73     avg = math.floor(num / len(category))
74
75
76     if avg > 89:
77         lettergrade = 'A'
78     if avg < 90 and avg > 79:
79         lettergrade = 'B'
80     if avg < 80 and avg > 69:
81         lettergrade = 'C'
82     if avg < 70 and avg > 65:
83         lettergrade = 'D'
84     if avg < 65:
85         lettergrade = 'F'
86
87     return avg, lettergrade
```

ii.

```
102 cat1avg, lettergrade1 = (findavg(category1))
103 cat2avg, lettergrade2 = (findavg(category2))
104 cat3avg, lettergrade3 = (findavg(category3))
```

List:

i.

```
39 while (grade != 'Q' and grade != 'q'):
40     grade = (input("Grade " + str(i) + ": "))
41     if (grade != 'Q' and grade != 'q'):
42         category1.append(grade)
43     i = i + 1
```

ii.

```
71 for i in range(len(category)):
72     num = num + float(category[i])
73     avg = math.floor(num / len(category))
```

