AP Free Response Create Task Name:

4 Questions(Question 1, 2a), 2b), 2c))

30% of AP Score

6 points total(4 points for 4 FRQ, 1 pt for video, 1pt for program code/PPR)

Sample Questions 1

Answer the following using your create task code. This assignment is only graded on completeness. No feedback will be given.

**Written Response 1: Program Design, Function, and Purpose:**

Identify an expected user of your program. Describe one way your program’s design meets the needs of this user.

**Written Response 2(a): Algorithm Development:**

Consider the first iteration statement included in the Procedure section of your Personalized Project Reference. Identify the number of times the body of your iteration statement will execute. Describe a condition or error that would cause your iteration statement to not terminate and cause an infinite loop. If no such condition or error exists, explain how the loop could be modified to cause an infinite loop.

**Written Response 2(b): Errors and Testing:**

Consider the procedure included in part (i) of the Procedure section of your Personalized Project Reference. Describe a change to your procedure that will result in a run-time error. Explain why this change will result in a run-time error.

**Written Response 2(c): Data and Procedural Abstraction:**

Suppose you are provided with a procedure called **isEqual(value1, value2)**. The procedure returns **true** if the two parameters **value1** and **value2** are equal in value and returns **false** otherwise. Using the list you identified in the List section of your Personalized Project Reference, explain in detailed steps an algorithm that uses **isEqual** to count the number of times a certain value appears in your list. Your explanation must be detailed enough for someone else to write the program code.