Three Sets of Sample Free Response Questions Name:

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:**

**Below are THREE sample free response questions for Written Response 1: Program Design, Function and Purpose. Answer all three using your create task Personalized Project Reference.**

Describe the problem that your program was created to address or the creative expression it pursues.

Explain how you used or could have used feedback, testing, or reflection in the development of your program.

Describe one piece of documentation that would be appropriate to include with or in your program. Describe the intended purpose of this documentation by identifying who would use it and what they would do with it.

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

**Below are THREE sample free response questions for Written Response 2(a): Algorithm Development. Answer all three using your create task Personalized Project Reference.**

Consider the code segment in part (ii) of the List section of your Personalized Project Reference that shows how your list is being used. Explain in detailed steps how this code segment works. Your explanation must be detailed enough for someone else to write the code segment.

Consider the first conditional statement included in the Procedure section of your Personalized Project Reference. Write an equivalent Boolean expression for this conditional statement.

Consider the first iteration statement included in the Procedure section of your Personalized Project Reference. Describe the condition(s) that will cause the body of the iteration statement to execute at least once.

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

**Below are THREE sample free response questions for Written Response 2(b): Errors and Testing. Answer all three using your create task Personalized Project Reference.**

Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Passing different values as arguments to a procedure can cause different segments of code to execute. Based on one of your arguments, describe where you could insert output statements in your procedure to test whether a block of code is executed or not. If it is not possible for different arguments to cause different segments of code to execute in your procedure, explain why not.

Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Identify a strategy, other than using test cases, that you can use to test the correctness of your procedure. Describe how you would use this strategy.

Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Write a call to your procedure with specific argument(s) that you could use for testing this procedure. Describe the program functionality that is related to this call.

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

**Below are THREE sample free response questions for Written Response 2(c): Data and Procedural Abstraction. Answer all three using your create task Personalized Project Reference.**

Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Explain how your program could be written differently if one of your parameters was removed from your procedure.

Consider the procedure identified in part (i) of the Procedure section of your Personalized Project Reference. Procedures are often used to organize larger problems into subproblems or smaller tasks. Identify the subproblem being solved or task that is being accomplished by your procedure. Explain how the procedure is used to accomplish the overall functionality of your program.

Consider the list identified in the List section of your Personalized Project Reference. Explain how you would need to adjust this part of your program if the list was not included in your code.