

SIT102 – Introduction to Programming

Answers for 2.1P Hello User

Student Name: Nievedha P Karthikeyan

Student ID: 218628359

Question 1: Briefly explain the differences between **variables**, and **constants**? When would you use a variable? When would you use a constant?

A variable is a location which stores a value in the program that can be changed. It can be used to retrieve and
--

read the variable back later. A constant is a location that stores a value within the
program that does not change. It is used for data where the value should not be changing
when the program runs.

Question 2: Describe **parameters**, how they work and when to use them. Explain how parameters change what you can do with functions and procedures.

Parameters are values given to the instructions that can be passed to the procedure.
--

When a procedure is called, a value is passed to the parameter. The instructions read the
value from the parameter to complete the task. It can be used when a variable with a
value set is needed during a procedure. The parameter can reduce repetition. It allows
to create programs and functions that respond dynamically to input.

Question 3: Why are **functions** called as part of an expression? Explain when you should use a function over a procedure?

The functions are called as part of the expression to calculate part or all of the value.

Functions should be used when calculation of values are required. Functions return values
unlike procedures that perform a task.