# Task 1

Write a routine of welcome to the system. This will allow the managing director to see what the screen display looks like, e.g., ‘please input your name’ and the output could be ‘welcome to my world [your name]’. You do not have to use exactly that output but it must include the name that was input.

## Analysis

This program needs to have a string name variable to store the name through an input, it then needs to output this using a print function.

**Success Criteria**

* The user needs to be able to enter a name
* It needs to be stored
* The message and stored name needs to be output

## Design

**Programming Approach**

This is will be a sequence program to store and output the variable ‘name’

**Inputs and variables**

Name

**Processing**

None required

**Flowchart/Pseudo code**

## Code:

Line 1: An assignment statement where the variable ‘name’ is made equal to the value of the input statement

Line 2: This outputs the value of the stored variable in a concatenated statement along with the text ‘Welcome to my world’

This was a sequence program to output the stored variable ‘name’

## Test

\*enter a name… output a name…

## Evaluate

\*how does the program work?

\*Did you meet success criteria?

\*Any problems?

# Task 2

Write a routine that enters real (scientific) numbers into an array of 20 spaces then adds all the numbers together and prints out the contents of the array plus the total value in a format such as: 1.0 + 2.0 + 3.0 +……+ 20.0 = 210.0.

## Analysis

The program needs to take 20 real numbers and store them in an array. It then needs to take these numbers and output them, and then output the sum of all the numbers.

**Success Criteria**

* Input 20 real numbers
* Store them in an array
* Output each number in correct format
* Output sum of numbers

## Design

**Programming Approach**

This program will use an iteration to add each value