**Assessment**

Name: Click here to enter your name Form: Click here to enter your form

**Programming questions:**

**Reading code**

Look at each of the questions relating to the program below and complete your answers in the text boxes.

def getARandomNumber():

import random

number = random.randint(1,100)

return number

# MAIN PROGRAM

target = getARandomNumber()

guess = int(input("Guess the random number: "))

while guess != target:

if guess > target:

guess = int(input("Too high, guess lower! "))

else:

guess = int(input("Too low, guess higher! "))

print("Well done!")

Describe the purpose of the program above:

Click here to enter your answer

Give the name of a function in the program

Click here to enter your answer.

Describe what will happen if the target number is ‘62’ and the guess is ‘51’.

Click here to enter your answer.

Describe what will happen if the target number is ‘62’ and the guess is ‘62’.

Click here to enter your answer.

**Algorithms**

Write out a pseudocode algorithm to simulate a program that asks for a password. If the user gets it right then the program tells them they are logged in, but if they get it wrong 3 times then the program tells them they are locked out.

Click here to begin writing your pseudocode.

**Assessment:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic** | **Intermediate** | **Advanced** | **Expert** |
| I have converted variable data types from string to integer and vice versa | I can define and use numbers with a decimal point and convert them to strings for output | I have used If statements in a program | I have completed all the tasks on Worksheets 1a and 1b (Data types and If statements) |
| I have written a program that uses a loop | I have written a program that uses a while loop | I can choose between a While or For loop and use the one which is most suitable | I have completed all the tasks on Worksheets 2a and 2b (Pocket Money and Loops) |
| I have written a program that uses lists | I can explain the advantages of using lists to store several values | I have used a loop to step through a list | I have completed all the tasks on Worksheets 3a and 3b (Superheroes and Super villains) |
| I have created and run a program using a function that does not return a value | I can explain the advantages of using functions | I have written an error free program involving a function without help | I have completed all the tasks on Worksheet 4 (Introducing functions) |
| I have created and run a program using a function that returns a value | I have written a program that uses a random number generator | I have written an error-free program that includes functions and loops | I have completed all the tasks on Worksheet 5 (Card Game) |

**Evidence of my most complex program**

*Insert a screenshot using* **ALT + Print Scrn** *of the program running:*



*Copy and paste your Python code for the same program into the area below:*

Click here to paste your code.