**Assessment**

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

**Programming questions:**

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

**Reading code**

Amount = int(input("Enter conversion amount in pounds: "))

Currency = input("Press 1 for Indian Rupees, 2 for Chinese Yuan or 0 to exit: ")

if Currency == "1":

Amount = Amount \* 100

print ("You will get",Amount,"Indian Rupees")

elif Currency == "2":

Amount = Amount \* 10

print ("You will get",Amount,"Chinese Yuan")

else:

print ("Goodbye")

Describe the function of the program above:

Click here to enter your answer.

What is the output if the input amount is ‘70’ and the currency choice is ‘2’?

Click here to enter your answer.

What is the output if the input amount is ‘25’ and the currency choice is ‘1’?

Click here to enter your answer.

What is the output if the input amount is ‘20’ and the currency choice is ‘0’?

Click here to enter your answer.

**Data Structures**

Name a **variable** in the currency conversion program. What data type would it be stored as?

Click here to enter your answer.

**Algorithms**

Write out a pseudocode algorithm to simulate throwing random dice rolls between 1 and 6, continuing until a 6 is rolled. The program should print each number rolled and the number of simulated rolls taken to throw a 6.

Click here to begin writing your pseudocode.

**Testing**

Use the table below to complete three tests you carried out on your program and explain the actual result.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test** | **Description** | **Input Data** | **Expected Output** | **Actual Result** |
| 1 | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| 2 | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |
| 3 | Click here to enter text. | Click here to enter text. | Click here to enter text. | Click here to enter text. |

**Assessment:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic** | **Intermediate** | **Advanced** | **Expert** |
| I have used Interactive and Script modes to successfully run a program I have written | I can distinguish between syntax and logic errors | I have written an error free program involving a while loop without help | I have written a binary search program |
| I have written programs using variables of different data types (e.g. string and integer) | I have used mathematical and Boolean operators such as AND, OR and NOT | I can describe how a binary search is carried out | I have included code in my programs to help prevent user input error |
| I can find and de-bug syntax errors | I have used an Elif statement in a working program | I can explain the advantages of a binary search over a linear search | I have successfully tested and de-bugged a logic error |
| I have used an If statement in a working program | I have written an error free program involving a while loop with help | I can explain the difference between syntax errors, run-time errors and logic errors |  |
| I use comments to document a program | I can write pseudocode to outline the steps in an algorithm prior to coding |  |  |

**How to progress**

**What I did well in this unit:**

Click here to enter text.

**What I could have done better in order to raise my performance:**

Click here to enter text.

**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.