**Checklists B – E must be completed for each Task**

*B: Under the* ***Design of the Solution*** *heading: Use a Flowchart / Pseudocode / Structured English for THIS CODE BLOCK*

|  |  |  |
| --- | --- | --- |
|  | ***Design of the Solution Checklist*** | ***Done?*** |
| 1. | Have you used a Flowchart/Pseudocode/Structured English for this code block? |  |
| 2. | Give your code block a 'name' so that you can use it in the last section |  |

*C: Under the* ***Solution Development*** *heading: Now do some Python Programming. When you have finished programming the block, check the checklist:*

|  |  |  |
| --- | --- | --- |
|  | ***Solution Development Checklist*** | ***Done?*** |
| 1. | Have you coded this task? |  |
| 2. | Have you clearly defined this section in Python using #===? See example below |  |
| 3. | Have you fully annotated this section of code? |  |
| 4. | Have you printed this section of code out? Copy it into Notepad and print (Don't print from Python – you have no control over the number of pages it prints out) |  |
| 5. | Is your name on each page of the printout somewhere? Hand written? In the code as a comment? |  |

*D: Under the* ***Programming Techniques*** *heading: Now write about why you have done what you have done. The following questions will help you:*

|  |  |  |
| --- | --- | --- |
|  | ***Section Checklist: Discussing Programming techniques involves:*** | ***Done?*** |
| 1. | - Why that loop? Why not another loop?  Refer to the section name when writing about it. |  |
| 2. | - Why import that library? For what purpose? |  |
| 3. | - What constants and variables did you use? What are their data types? You can list these in a table if you want, so that you can add more to it as you work through the coding. |  |
| 4. | - Did you use any arrays (or other data structures?). Why? You can copy and paste this array (other data structure) into your document if it helps to describe it. |  |
| 5. | - What text files did you use, if any. For what purpose? |  |
| 6. | - What functions did you use/create? For what purpose? |  |
| 7. | - What did you use for validation (making sure the user can't input silly inputs!)? How did you catch any input errors? And what did you do about this? This is called robustness. |  |
| 8. | - Have you explained how the programming technique is efficient? (Repetitive code has been minimised) ie did you use a function? |  |
| 9. | - How have you considered the needs of the user – answer the following: What does the user need to input? Where does this happen? Does your program display messages? Does the program state what is going to happen next – is this clear? |  |
| 10. | Have you referenced any internet sources /other sources in your write up? |  |

*E1: Under the* ***Testing and Evaluation*** *heading, complete the test table:*

|  |  |  |
| --- | --- | --- |
|  | ***Testing Checklist...*** | ***Done?*** |
| 1. | *Have you copied the the test table headings? Step 2* |  |
| 2. | Have you described and created tests in this section in the table? |  |
| 3. | Every test needs a Test ID - have you given every test a Test ID?? **Task No.Test No** |  |
| 4. | Have you used actual user input? ie 5, No, n, ## |  |
| 5. | If actual output = expected output, have you typed in **As expected**?  Have you screenshotted your input and output? – For tests that are hard to describe |  |
| 6. | If actual output != expected output, have you typed in what you need to do to fix it in the Action Taken column? Have you screenshotted your input and output? |  |

*E2: Under the* ***Testing and Evaluation*** *heading, under the test table:*

|  |  |  |
| --- | --- | --- |
|  | ***Evaluation Checklist...*** |  |
| 1. | Have you evaluated this section? Answer the following questions:  Have you solved the task?  Have you coded the task successfully? If not, why not?  Could you have coded it in a different way if you had had more time?  Was there anything else you think you should have done (more testing, more validation) |  |