Name : A.Tanase

Total score: 50/50

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| Question | Available marks | Marking breakdown | Total Score |
| 1(a-c) | 3 |  | 3 |
| 2a | 1 |  | 1 |
| 2b | 2 | # 1 mark : casting  # 1 mark : augmenting the value of A | 2 |
| 3a | 2 | # 1 mark : properly constructed function with def and return  # 1 mark : docstring that says what the function does | 2 |
| 3b | 1 | # 1 mark : Make the radius a default argument equal to 4. | 1 |
| 3c | 1 | # 1 mark : Use a \* to force the argument radius | 1 |
| 4a | 3 | # 1 mark : properly constructed function with def and return  # 1 mark : docstring that says what the function does  # 1 mark : calculate cosine | 3 |
| 4b | 5 | # 1 mark : properly constructed function with def and return  # correct inputs  # 1 mark : docstring that says what the function does  # 1 mark : sort elements of list  # 1 mark : demo function works in part a OR b OR c | 5 |
| 4c | 2 | # 1 mark : source appropriate function  # 1 mark : use to achieve correct answer | 2 |
| 5a | 4 | # 1 mark : import matplotlib and display plot (%matplotlib inline)  # 1 mark : plot x against y  # 1 mark : scatter plot  # 1 mark : blue triangles | 4 |
| 5b | 3 | # 1 mark : use polyfit to fit line  # 1 mark : use poly 1D to generate equation  # 1 mark : add the line to the plot | 3 |
| 5c | 2 | # 1 mark : include label in plot command above  # 1 mark : include legend | 2 |
| 6a | 1 | # 1 mark : correctly create `Z` | 1 |
| 6b | 2 | # 1 mark : input command  # 1 mark : prompt and space seperation | 2 |
| 6c | 1 | # 1 mark : correctly print string | 1 |
| 6d | 3 | # 1 mark : open test file in write mode  # 1 mark : correctly write string to file  # 1 mark : close file | 3 |
| 7a | 2 | # 1 mark : 2 by 2 array  # 1 mark : random integer values | 2 |
| 7b | 3 | # 1 mark : select elements to form 2 by 2 array  # 1 mark : select correct elements  # 1 mark : new variable k | 3 |
| 7c | 3 | # 1 mark : select elements to form 2 by 2 array  # 1 mark : select correct elements  # 1 mark : augment variable j | 3 |
| 7d | 1 | # 1 mark : add i and j | 1 |
| 8 (a-e) | 5 |  | 5 |