ISE: Worksheet 3

Q1:

1. Valid, can be tested by asking the program to save in those formats
2. Non-Valid, since it does not ask for a specific file format
3. Non-Valid, since saving depends on the size of the image being saved
4. Valid, can be tested by attempting to save images of up to 100 megapixels
5. Non-Valid, an “average” pc is not defined
6. Valid, by running the software simultaneously on multiple machines are recording its rate of crashes
7. Non-Valid, it is not possible, since the image was not saved
8. Non-Valid, ambiguous
9. Valid, can be tested by having multiple users try the software
10. Valid (unreasonable), can be tested by having multiple users try the software

Q2:

1. The system must recognise an obstacle when it comes in front of the sensors within 10ms.
2. The system must narrate the read text at a rate of 3 words/sec
3. The system must be able to equate quadratic equations within 10 seconds

Q3:

1. 1. The system must allow the average user to choose their destination within 30 secs including typing their destination. 2. The system must allow the user to input their desired destination within 2 clicks.
2. The system must allow the average user to access their bank account within 40 secs
3. The system must the world’s five most spoken languages

Q4:

1. The sensors of the system must have an AVAIL of 99.999%
2. The system must confirm a person’s identity with a 0.01% chance of failure
3. The system must have an accuracy of 80%