**Unit 4 Algorithmics**

**Week 12 Submit Tasks**

1. Rishi says that the Turing Test is a waste of time because we already know that machines cannot think. Explain the error in his reasoning.

(2 marks)

1. Briefly describe three shortcomings in the Turing Test’s aim to establish whether or not machines can exhibit human-like behaviour.

(3 marks)

1. State the ‘systems response’ to the Chinese Room Argument, and a standard reply.

(2 marks)

1. Can we ever prove that machines can be conscious?

(2 marks)

1. Suppose Google constructs an algorithm which is able to predict, with 99% accuracy, the most appropriate marriage partner within a 100km radius for whoever runs the program. It does this based on data gathered over a long time period, and gives you nothing but a name and email address (so there is no doubt you’ve found the right person!)

Discuss how this raises ethical issues in the following areas:

* Transparency
* Bias
* Human dignity

(5 marks)