Quiz 1

1. In the Computer Scientist’s perspective, Intelligence is:
   a. Establishment of Relationships
   b. Dumping data into some storage
   c. Differentiating b/w things
   d. a & b  
   1 Point

2. Hamiltonian Cycle is a closed loop in the graph that visits each node exactly once. Computer can not find a Hamiltonian Cycle by ordinary Computational means.
If you were a strong believer of AI, would you be of the view that this problem could be solved using AI?
Please support your answer with a reason.

Yes, this problem could be solvable using AI. A human brain can solve this problem by using reasoning and intelligent guesses. Now if we come up with some Heuristics which could give the system same reasoning power as that of the brain then its possible to solve this problem. Strong AI believers believe that such Heuristics is attainable.
3. We can efficiently apply AI techniques to the following, except:
   a. Game Programming
   b. Theorem Proving
   c. Solving of Simultaneous Equations
   d. Language Translation

4. Imitation game (Turing Test) measures:
   a. Intelligence of an Intelligent Machine
   b. Intelligence of a game lover
   c. Imagination Powers of a person using Fuzzy Logic
   d. None of above

5. Represent the following in the Predicate form:
   a. If it doesn’t rain tomorrow, Tom will go to mountains.

      \[\text{weather}(\text{rain}, \text{tomorrow}) \rightarrow \text{go}(\text{tom}, \text{mountain})\]  

   b. If God will send his angels
      And if God will send a sign
      And if God will send his visions
      Everything Would be alright

      \[\text{will} \_ \text{send}(\text{god}, \text{angels}) \land \text{will} \_ \text{send}(\text{god}, \text{sign}) \land \text{will} \_ \text{send}(\text{god}, \text{visions}) \rightarrow \text{alright}(\text{everything})\]
6. Represent the following System in a single Predicate Sentence:

```
on_road(car(red)) \land on_road(ali) \land in(bilal \land car(red)) \land \neg here(zahid)
```

6 Point