

assign the colors. And in the last stage generate one neuron which displays the output of that sentence, by connecting that left and right neuron. The output is that the sentence will display the color of the middle neuron.

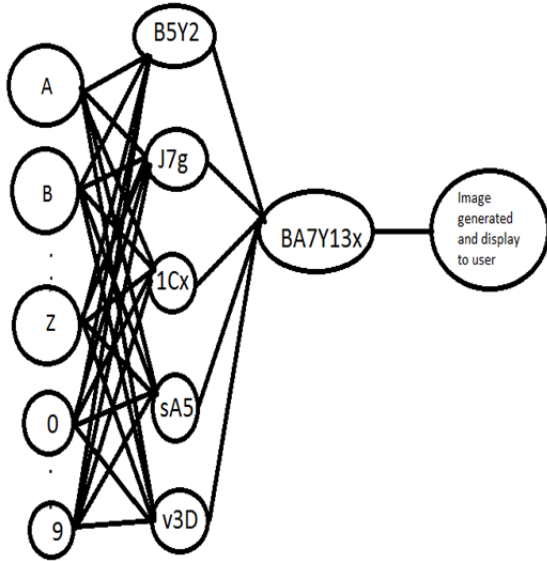


Fig 6. Image Based CAPTCHA

In the Image text based CAPTCHA, generate the number of neurons which contain A to Z or a to z letters and 0 to 9 numbers are given. In the next stage randomly pick the word and create one neuron contain one combine words and letters and in the output stage generate one image of that words and display to the user in the image format by combining the word.

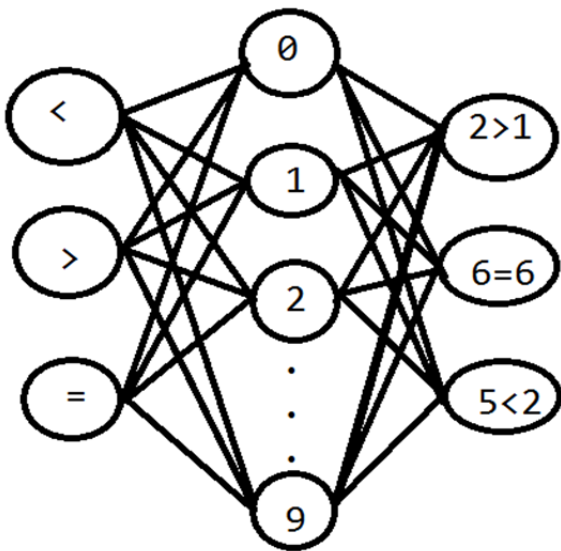


Fig7. Logical CAPTCHA

In the logical CAPTCHA, less than, greater than, equals to operations are generated in the neuron and randomly select those operations in the first stage. In the next stage generate the numbers and pick the numbers randomly then in the last stage output is formed by combining the numbers and operations

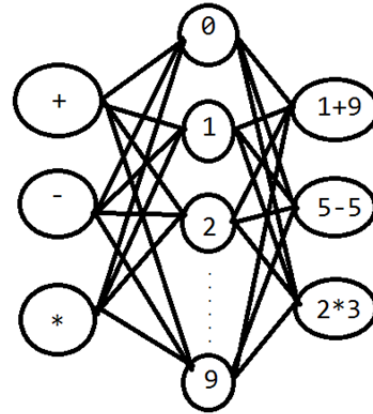


Fig.8. Arithmetic CAPTCHA

In Arithmetic CAPTCHA, generate the operations in the form of neurons and pick the number randomly and also randomly select the operations then in the last stage generate the different neurons which contain the output of that operation.

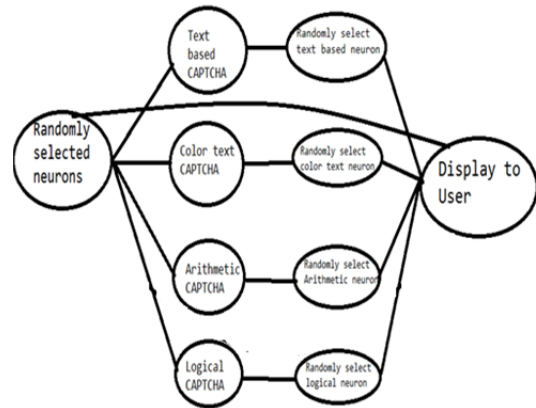


Fig.9. Combined CAPTCHA

Overall figure is display contain 4 types of CAPTCHA firstly in first neuron contain Randomly selected neuron which generates the 4 types of CAPTCHA randomly and then select those one of the CAPTCHA and each of the CAPTCHA contain one particular neuron and choose that neuron which types of CAPTCHA will produce and in the last stage display the output to the user and again this cycle will produce and again initialize the neurons randomly.

IV SYSTEM IMPLEMENTATION

- Step 1:** Start
- Step 2:** Load Neurons to All Different CAPTCHA Algorithms
- Step 3:** Select One Neuron Randomly
- Step 4:** Load CAPTCHA Based On Selected Neuron
- Step 5:** Load Answer in Background
- Step 6:** Accept Answer from User
- Step 7:** If Accepted Answer Match
 - Step 7.1:** Go to Step 9
- Step 8:** Else Go to Step 2
- Step 9:** Check User id And Password
 - Step 9.1:** If Match
 - Step 9.2:** Go to Step 10
 - Step 9.3:** Else Go to Step 2
- Step 10:** Grant Access
- Step 11:** Exit

V. RESULTS AND ANALYSIS

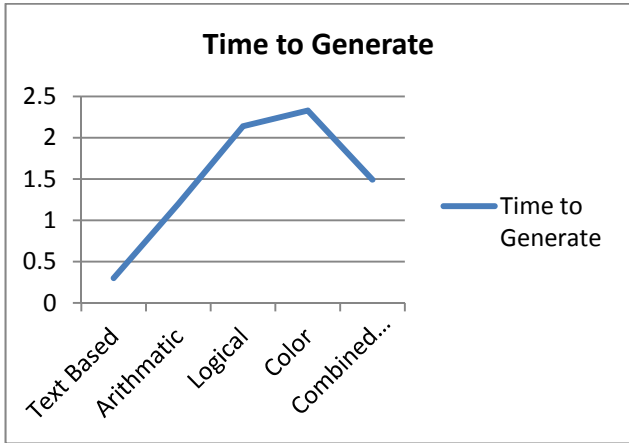


Fig10. Graph of time to generate CAPTCHA

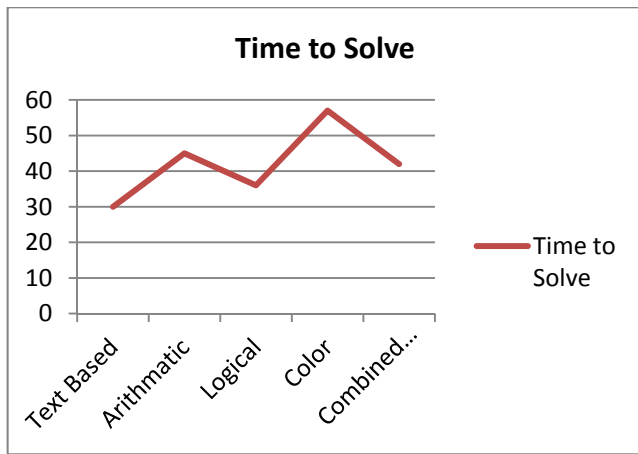


Fig11. Graph of time to solve CAPTCHA

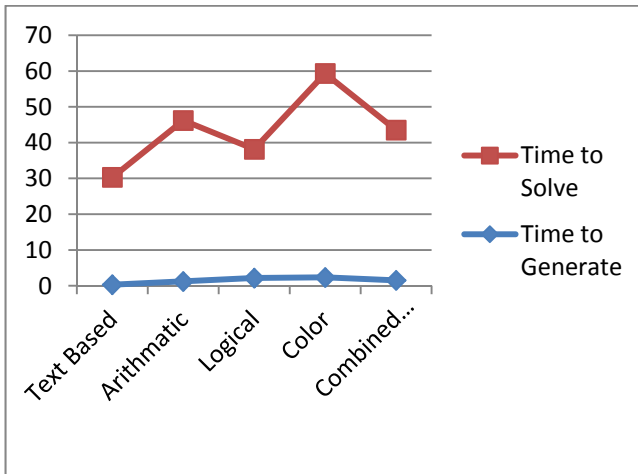


Fig12. Graph of time to solve and time to generate

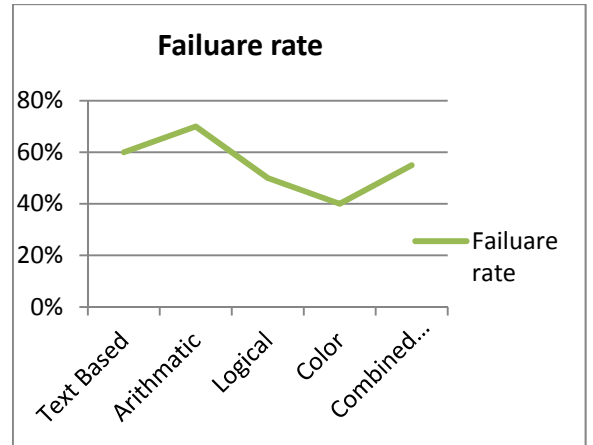


Fig13. Graph of failure rate

VI. CONCLUSION

Here our objective is to provide best CAPTCHA for protection against spyware which is developed by using artificial intelligent programming which carries random questions which is easy to understand solve by user but it is not understandable for the machine which means spyware, bots or any machine tools cannot solve this problem. Answer of the AI problem is typed in the textbox. These CAPTCHA this will produces best outcome from the above is unbreakable for machine hacking tools.

By the use of neural logic we generated the 4 types of operation such as, text based, arithmetic, logical, color text operation. Hence the security level will increase by providing these types of operation. Human can be easily solve those CAPTCHA and also understand the question easily.

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