**Automata machines as an Analyzer**

**Working of Codes:** We have made a simple Automata Analyzers using C++ programming language that read states, alphabet and transitions of different languages of machine from separated files, then it load the machine from text file to our project and code asks users to check the input string belongs to machine’s language or not. It will give output accepted successfully or not.

Our codes are useful for any machine (FSM, PDA, and TM) (infinite machines).

**Scope of Project:** The first thing which comes in mind is that how can one get benefit from our codes. It is very helpful for teachers and students as well. It will be helpful for teachers in that sense suppose you have give assignments/homework’s to students instead of demanding in hand written form you just ask them to give me the details of machine in text file. Instead of checking each individual handwritten assignment/homework you just load the text file into our code and then check whether it is providing acceptable output of any valid input.

Now, it comes a turn of students, our analyzers will be helpful for students in that context that by using our code he/she would be able to know that the machine he/she had been made is acceptable for all input strings of that language or not.

In last but not least, our project saves time, energy and will bring the students more close to technology. It provide a chance to explore ideas in a more better and technical way. By seeing our analyzers it may be possible that some students come up with a wild idea that why not I do such a creative work. We have built our project on DevC++ technology, By using more skills and advanced technology we can improve our project and make it user friendly on internet online.