

# JORY

JORY Program is a preschool interactive-learning program for toddlers and young children. It contains 7 different subjects, namely (Alphabet – Numbers – Animals – Colors – Shapes – Vegetable – Fruits).

JORY Program provides visual & auditory learning materials for every subject. One of the most important features of this program is that it allows the users (parent) to **ADD** new elements to every subject, **DELETE** elements and **MODIFYING/UPDATING** existing elements.

This program already contains initial database as a starting and the user can add on it. In the very first run of this program, it initializes the database and extracts it from the *.Jar* program to the user home, and it keeps there a setting file to indicate if it's NOT the first run later on. It also allows the user to add *.mp3* files or if he/she wants they can record their voices or any other sound to *.wav* file. In addition, the user can add *.jpg* or *.png* files and use nouns as texts to describe each element in the subject.

In this program, I used *LinkedList*, *ArrayList<ArrayList<String>>* and *TreeMap<String, ArrayList<String>>*. This program can handle and manage multi-threading. This program explicitly shows implementation of customized Exception, advanced CRUD, multi-threading, APIs, Advanced File Handling, and very advanced functionality and many more in the design and data manipulation.