Money Saving Box Digital Display

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This money saving box digital display is a saving box that is integrated with electronic circuits, which interfacing with PC and controlling the operations by programming. This project is to display up to four digits the amount of money saved in the box. There will be three types of coins that can be accepted, they will be DM0.10, DM0.20 and DM0.50. 7-segment display will show the total amount of money saved in the box and shows the new amount every time money is withdrawn from the box.

The user is required to insert coins in a particular track that has been assigned for RMO.10, DM0.20 and DM0.50. That is mean the user inserts the coins manually to the box. That is possible to make a simple mechanical machine that is using string to differentiate the coins into correct track but I am not doing that part in my project The main parts I am concentrating are on sensor and withdrawing part.

For the counterpart, 3 set of infrared emitter and detector circuits are used to sense the insertion of difference coins to a particular track.

For the withdrawing part, i constructed a modal that is convenient to control the number of coins drop down from the track of difference coins which in need of DC modal to control. The rotation & of the dc motor withdraws one coin at a time. When the user need to withdraw money, he or she has to key in the amount of money they wish to take out from the box and the programming with run the execution and instruct the combination of money that has to be drawn out. The old amount of total money saved in the box will be detached and the 7-segment will display the left amount.

Using this saving box, user just needs to open the program and it shows the most updated amount of money saved, instead of throw out all the money from the box and starts to count.