

*Report on*

**‘Fish Food Dispenser’**

*By*

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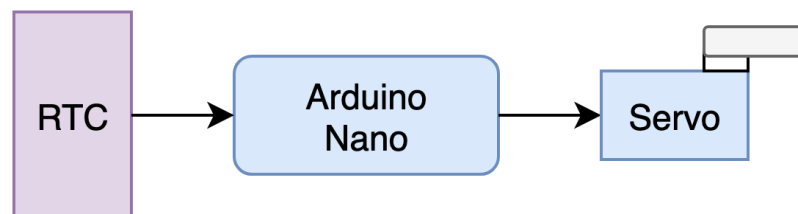
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**Objective:**

To construct a device that can be used to provide food for fishes at a preset time.

**Description:**

The fishes are the poorest creature which cannot even show us a sign that they are hungry. Even if humans take good care of the fishes by feeding them at the correct time, there will sometimes when we fail to feed them. So, this device does the work of feeding the fishes at a preset time. In this project I have implemented, when the device is switched on the food falls to the fishes. In the future, it can be made to deliver food at a time defined, using an rtc.

**Block Diagram:****System Requirement Specification****Hardware Requirement:**

- Servo
- Arduino Nano
- RTC DS3231 (If you want to develop the project)
- Jumper cables

**Software Requirement:**

- Arduino IDE
  - Library: 1. Servo.h

**Working Principle:**

When the device is switched on, the servo motor moves in a pre-defined path to drop food from the funnel where the food is stored. This can be further developed by making the food fall automatically based on the rtc. Finally helping the fishes to eat their food at their specific time.

### **Circuit Connections:**

- Connection of Arduino to Servo:
  - 13 - Signal
  - 5v - VCC
  - Gnd - Gnd
- Connection of Arduino to RTC DS3231: ( OPTIONAL )
  - A4(SDA) - SDA
  - A5(SCL) - SCL
  - 5v - Vcc
  - Gnd - Gnd

### **Result:**

The result of the project Fish Food Dispenser is verified and it satisfied all my requirements without any exceptions.

