

# PROJECT PROPOSAL

**Project Title: Automatic Door Open-Close**

**Developed By:**

Name	ID	E-mail
Partho Debnath	19201103016	partho.bubt.edu1@gmail.com
Fayezur Rahman	19201103017	fayezurrahman017@gmail.com
Sanjana Islam	19201103021	sanjanasami1327@gmail.com
Shohanur Rahman	19201103022	ps.shohan1@gmail.com
Jack Pritom Soren	19201103032	jackpritombubt@gmail.com

Supervisor: Fahima Khanam

Department: Computer Science and Engineering (CSE)

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# Objectives

The purpose of this project is to automatically open the door by detecting body temperature. To a certain extent, guarantee the safety of the living environment. Automatic doors effectively contribute to energy saving and reduce annual heating and cooling costs. Doors open only when activated and automatically close so to eliminate the doors being left open. They also prevent air-conditioning from escaping and outside air and dust from entering.

# Equipment

- Arduino Uno
- Solderless Breadboard
- Passive Infrared Sensor (PIR Sensor)
- Motor
- Mini L298n Motor Driver / L293D Motor Driver
- Green LED
- 100R Resistor x 1
- Connecting Wires
- Power Adapter

# Features

Automatic Door Opening System is a simple automated system, where the door is automatically opened up on detecting a person and automatically closes after some time.

Opening and closing of doors have been always a tedious and boring job, especially in places where a person is always required to open the door for visitors such as hotels, restaurant, shopping malls etc.

Automatic door opening systems are used in many places like shopping malls, bur or railway stations, airports, etc. to eliminate manual control of opening and closing the doors.

## Diagram

