## First Project (using the stepper motor)

- selection of projectmayank+salil+mohit
- project designsalil+mayank
- buying items from lamingtonmohit+salil


Second Project (without using the stepper motor)


## Software <br> development +testing

- software developmentsalil+mohit
- testingmohit+salil+ mayank


## Algorithm (first project)

take 10 distinct voltage readings in 50 ms at each of the 4 LDR's

compute the average readings(v1,v2;h1,h2)
and compare the values

if $\mathbf{v} 1>\mathrm{V} 2+0.1$;
clockwise();
if v2>v1+0.1;
anticlockwise();


Repeat step 3 till
$|\mathrm{v} 1-\mathrm{v} 2|>0.1$;
Stop when |v1-v2|<0.1;
again continue with vertical
tracking and hotizontal
tracking

wait for 15 mins



## Circuit diagram



wait for 10 secs

$\xrightarrow{ }$

Print "i " if ci>0.20 depending upon which ci is the highest if ci<0.20, print the value of " i " obtained in the previous cylce

compute ci=(ai-bi)/ ai we consider a change in the value of ci only if ci>.20. Other changes are considered random


## Project 2

## List of components

| component name | number of components |
| :--- | :--- |
| Arduino board | 1 |
| L293D | 2 |
| Opamps (741) | 4 |
| LDRS(We tried many types) | $4+4+4$ |
| Stepper motors | 2 |
| Photodiodes(We tried <br> many types) | $4+4+4$ |
| connectors | 6 |
| resistors | many |
| Acryline sheets | 2 |

## Presented By:-

