**Activity 1: Charging of Electric Vehicle**

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**Course:** Computer Science

**Batch:** CE2

**Research:**

*Referred Website:*

https:/share.google/VIL6FVPSBloqNBehC & https://share.google/qjO5uV0luKkYZeII9

**Analysis:**

1. Charging EV’s

• EV’s run on rechargeable battery the process of charging involves transferring electrical energy.

• Start/stop of charging base on battery SOC.

• When battery is below 50%SOC it automatically inform the user to connect the charger.

• It helps to user and avoid inconvenience

**Ideate:**

*Problem Statement:*

Design and implement a simulation model for an electrical vehicle that accurately represents its behavior in an battery. The simulation should account for the battery states (ON and OFF).

*Algorithm:*

1.Start

2.Initialize config and state

3.Read battery status

4.Turn on charger if battery is <50%

5.Else no need to turn on charger

6.End.

**Build:**

*Programming:*

#include<stdio.h>

void main() {

int charging\_level;

printf("Enter charging level:");

scanf("%d",&charging\_level);

printf("Enter the value of charging level %d\n",charging\_level);

if (charging\_level<50){

printf("Turn ON chager");

}

else

printf("you are ready to go");

}

**OUTPUT:**

Enter charging level:45

Enter the value of charging level 45

Turn ON chager