Activity 1.

# Stimulation of electrical switch.

## Design a C program to simulate the operation of an electrical switch the operation of an electrical switch wheir the program takes input value either 0 or 1 represent think the switch B of or on respectively. Using the suitable conditional statement the program should interpret the input values and display the corresponding condition as on or off . additionally ,the program should handle invalid input values and provide appropriate error messages

# Reserch: water level alarm switch

I have created this program which is on water level of kadakwasla dam

References : <https://en.wikipedia.org/wiki/Khadakwasla_Dam>

### To desigh dam water level alarm switch ,you can follow the design thinking cycle : empathize with dam operator and nearby communities to understand their needs for flood prevention . next define thr problem by creating clear specification for sensor ,alerts and control system.

# Analysis

I am using c program to make this dam project. An analysis of khadakwasla dam water level alarm switch involves understanding its function in monitoring the dam storage level and triggering alert when water reaches critical point typically to manage discharge and inform nearby residents .then specific data for the alarm switch is not publicly available but such system are essencial for safety flood prevention and managing water supp

### Details of khadakwasla dam

Creates khadakwasla lake

Capacity 374 million cubic meter

# Ideate

Design this program to automate water level of dam. The maximum value IS 341 million cubic metres When the value is hit the doors of dam close automatically any value less then 341 million cubic metres is accepted.

BUILD

// Online C compiler to run C program online

#include <stdio.h>

void main(){

int a;

printf("Enter water level of dam (in million cusecs)\n");

scanf("%d",&a);

if(a>=341){

printf("Water level exceeded\n");

}

else{

printf("Water level sufficient\n");

}

}

# 