SAFETY:THE FIRST PRIORITY

●Introduction:

Car crash are going common now a days in newspaper we see atleast 2 case this every day people lose life get injured in this scenario.

●Ideas:

We have an idea which can save many peoples lives and save them for major injuries.every car has seat belt but people avoid to use them,but they need to drive car any how so we created such a program use switch on off system which will make people to use seat belt compulsory,if anyone left seat belt unlock which we consider as switch off (0) then the will not only start it will only start when the person lock the seat belt which we consider as switch on (1).This program will help to control crash casualty.

●Research:

As per the report of national highway traffic safety administration(NHTSA) in 2023 49.3% people died

due to not using a seat belt. It clearly state that using seat belt significantly reduce the risk of death and serious injury.if anyone wants to see the death count over the year they can visit the official site of NHTSA,i.e-https://www.nhtsa.gov

● Analysis:

By this we get that seat belts are important for our safety so you should roll this program in your motor cars.

● Build:

```c
#include <stdio.h>

int main() {
    int seatBeltStatus;

    printf("Welcome to the Seat Belt Safety System\n");
    printf("Enter seat belt status (0 = Unlocked, 1 = Locked): ");
    scanf("%d", &seatBeltStatus);

    if (seatBeltStatus == 1) {
```

```
        printf("Seat belt is locked.\n");
        printf("Car started.\n");
    } else {
        printf("Seat belt is not locked.\n");
        printf("Car will not start. Please fasten the seat belt.\n");
    }

    return 0;
}
```

● Testing:

Case 1:when seat belt unlocked

Welcome to the Seat Belt Safety System
Enter seat belt status (0 = Unlocked, 1 = Locked): 0
The seat belt is not locked.
The car will not start. Please fasten the seat belt.

Case 2:when seat belt locked

Welcome to the Seat Belt Safety System

Enter seat belt status (0 = Unlocked, 1 = Locked): 1
The seat belt is locked.
The car started.

● Conclusion:

This project successfully demonstrates a basic seat belt safety system using a simple C program, where the car's ignition is permitted only when the seat belt is securely locked. By using binary input (0 for unlocked and 1 for locked), the system enforces a critical safety feature that encourages driver responsibility and helps prevent accidents.