***ASSIGNMENT 1***

1. **RESEARCH :**
2. REFERING C PROGRAMMING BOOKS
3. INTERNET – USING GOOGLE, VARIOUS SITES.
4. PERSONNEL IDEAS -INNOVATING IDEAS, FINDING BETTER EXAMPLES, DISCUSSING IDEAS WITH THE GROUP.
5. GUIDANCE FROM TEACHERS – CLEARING DOUBTS TO UNDERSTAND THE PROJECT BETTER.
6. **ANALYSIS** :

IF ELSE CONDITIONS ARE USED IN DAY TO DAY LIFE FOR INSTANCES:-

1. USED IN VOTING SYSTEM
2. USED FOR GRADING SYSTEM
3. TO CHECK IF THE NUMBER IS EVEN OR ODD
4. TO CHECK IF THE NUMBER IS POSITIVE OR NEGATIVE
5. USED IN EMERGENCY ALARM SYSTEM
6. CAN BE USED TO OPERATE DOORS
7. **IDEATE** :
8. THE IDEA OF MAKING CODE BASED SYSTEM TO DOORS WAS TO ASSURE MORE SAFETY TO THE OWNERS.
9. BY USING THIS SYSTEM THERE IS NO FEAR OF LOSING THE KEYS, FINDIND IT INSIDE THE BAGS OR WASTING YOUR TIME IN THIS.
10. JUST PUT A SIMPLE CODE AND YOU CAN ENTER YOUR HOME PEACEFULLY.
11. **BUILD** :

LET ‘A ‘BE THE DOOR CODE

IF A IS THE CODE ENTERED

NO

DOOR WILL REMAIN CLOSE

YES

DO YOU WANT TO CHANGE THE DOORCODE

CODE IS CORRECT ENTER HOME

NO

SECURITY CODE

TRY AGAIN

1. **TESTING:**
2. THE CODE WAS CROSS- CHECKED BY THE TEACHERS, THE GROUP . ALL THE ERRORS WERE ELIMINATED AND NEEDFUL CHANGES WERE DONE ACCORDINGLY.
3. THE CODE IS AS FOLLOWS:

//This example shows how you can use if..else to "open a door" if the user enters the correct code:  
#include <stdio.h>  
  
int main()  
{  
    int doorcode= 1;  
    printf("Hello! Please enter the code: ", doorcode);  
    scanf("%d", &doorcode);  
//The door will open only if the entered code is matching with the stored code.  
    if(doorcode==1)  
    {  
        printf("The code is CORRECT! Welcome!");  
    }  
    else if(doorcode!= 1)  
    {  
     printf("The code is INCORRECT!\n");  
//This simply asks the user a verification question if they want to reset the password.  
     int b;  
     printf("Do you want to reset password? ENTER 1 for yes and 0 for no.\n",b);  
     scanf("%d",&b);  
     if(b==1)  
     {  
         printf("First answer this security question. Is green your favourite color?",b);  
         scanf("%d",&b);  
//And accordigly a reset password mail is sent to the user.  
         if(b==1){  
           printf("Reset password has been sent on email.");  
         }  
         else{  
           printf("Wrong answer.");  
         }  
     }  
//If the user input doesn't match, they have to try again later.  
     else  
     {  
         printf("Try again later.");  
     }  
}  
return 0;  
}

1. **IMPLEMENTATION :**
2. THE CODE IS BEEN POSTED PUBLICLY ON GITHUB ONLINE PLATFORM WHERE VARIOUS PEOPLE CAN WORK UPON THIS CODE FOR THEIR PERSONAL USE.
3. THE CODE VALIDATION HAS BEEN TESTED BY UNDERLYING ASSUMPTIONS AND GATHERING FFED BACK FROM THE CUSTOMERS ON THE SOLUTION.

***THANK YOU!***