Q.Write a program to perform matrix addision of two 2x2 matrices from the user.

```
#include<stdio.h>

int main(){
   int ary1[2][2], ary2[2][2], ary3[2][2];
   int n = 2;

   for (int i = 0; i < n; i++){
      for (int j = 0; j < n; j++){
         printf("Enter a %dx%d for matrix-1: ",i,j);
         scanf("%d", &ary1[i][j]);
      }
   }

   printf("\n");

   for (int i = 0; i < n; i++){
      for (int j = 0; j < n; j++){
         printf("Enter a %dx%d for matrix-2: ",i,j);
         scanf("%d", &ary2[i][j]);
      }
   }

   for (int i = 0; i < n; i++){
      for (int j = 0; j < n; j++){
         ary3[i][j] = ary1[i][j] + ary2[i][j];
      }
   }
```

```
//--------------------------------

for (int i = 0; i < n; i++){
   printf("|");
   for (int j = 0; j < n; j++){
      printf(" %d ", ary1[i][j]);
   }
   printf("|");

   if (i == 0){
      printf("x");
   }else{
      printf(" ");
   }

   printf("|");
   for (int j = 0; j < n; j++){
      printf(" %d ", ary2[i][j]);
   }
   printf("|");

   if (i == 0){
      printf("=");
   }else{
      printf(" ");
   }
```

```
        printf("|");
        for (int j = 0; j < n; j++){
            printf(" %d ", ary3[i][j]);
        }
        printf("|");

        printf("\n");
    }

    return 0;
}
```