Q. Write a program to perform matrix transpose a matrix from the user.

#include<stdio.h>

```
int main(){
  int ary1[2][2], ary2[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]);
    }
  }
  for (int i = 0; i < n; i++){
    for (int j = 0; j < n; j++){
       ary2[j][i] = ary1[i][j];
    }
  }
  printf("The transpose is:\n");
  for (int i = 0; i < n; i++){
     printf("|");
```

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

printf("\n");
}
return 0;
}</pre>
```