1. bool pathway[8] = {[0] = true, [2] = true};


2. I have attempted to try using some searching algorithms to find the shortest path but I was not able to use it successfully for this assignment. Instead I used switch case to set the predetermined charging station

```c
#include <stdio.h>
#include <stdbool.h>

int main(void) {

        int userinput, j, k;

        bool road_network[8][8] = {
        {1,1,0,0,0,1,0,0},
        {1,1,1,0,0,0,0,0},
        {0,1,1,0,1,1,0,0},
        {0,0,0,1,1,0,0,0},
        {0,0,0,1,1,0,0,0},
        {1,0,1,0,0,1,0,0},
        {1,0,0,1,0,0,1,0},
        {0,0,0,0,0,1,0,1},
        };

        printf("A B C D E F G H\n");
        for( j=0; j<8; j++) {
   for( k=0; k<8; k++) {
     printf("%d ", road_network[j][k]);
   }
                printf("\n");
 }

        printf("\nWhich point are you located? 0 - A, 1 - B, 2 - C, 3 - D, 4 - E, 5- F, 6 - G, 7 -
H\n");
        scanf("%d", &userinput);

        switch(userinput){
   case 0:
     printf("At point: A\n");
                        printf("point: C arrived to charging station");
     break;
```

```c
        case 1:
          printf("At point: B\n");
                        printf("point: C arrived to charging station");
          break;

        case 2:
                        printf("point: C is a charging station");
          break;

        case 3:
                        printf("point: D is a charging station");
          break;

        case 4:
          printf("At point: E\n");
                        printf("point: D is a charging station");
          break;

        case 5:
          printf("At point: F\n");
                        printf("point: C is a charging station");
          break;

        default:
          break;
            }

            return 0;
}
```