Implement a list using array and develop functions to perform updation in c .

#include <stdio.h>

#define MAX\_SIZE 100 // maximum size of list

int list[MAX\_SIZE]; // array to store list elements

int length = 0; // current length of list

// function to add an element to the end of the list

void add(int element) {

if (length < MAX\_SIZE) {

list[length++] = element;

}

}

// function to update an element at a given index

void update(int index, int element) {

if (index < length) {

list[index] = element;

}

}

// function to print the current list elements

void printList() {

printf("List: ");

for (int i = 0; i < length; i++) {

printf("%d ", list[i]);

}

printf("\n");

}

int main() {

add(1);

add(2);

add(3);

add(4);

add(5);

printList(); // output: List: 1 2 3 4 5

update(2, 10); // update element at index 2 with 10

printList(); // output: List: 1 2 10 4 5

update(4, 20); // update element at index 4 with 20

printList(); // output: List: 1 2 10 4 20

return 0;

}

