Input: Ascending Order

```
1
     //Ascending Order
2 = #include <xc.h>
     #include <stdlib.h>
3
   #include <picl8f4550.h>
4
5
6 - void main(void) {
7
         int i, j, t;
         int a[] = {0x01, 0x03, 0x06, 0x04, 0x07, 0x02, 0x05, 0x08};
8
9
10
11
         for(i = 0; i < 7; i++) {
             for(j = 0; j < 7 - i; j++) {
12
13
                  if(a[j] > a[j+1]) {
14
                      t = a[j];
15
                      a[j] = a[j+1];
16
                     a[j+1] = t;
17
                 }
18
              }
19
20
21
      TRISD = 0;
22
23
24
         for(i = 0; i < 8; i++) {
25
             PORTD = a[i];
26
27
             for(int n = 0; n < 1000; n++) {
28
                 for (int k = 0; k < 100; k++) {
29
30
                 }
31
              }
32
33
34
```

Input:Descending Order

```
//Decending Order
= #include <xc.h>
 #include <stdlib.h>
#include <picl8f4550.h>
void main(void) {
      int i, j, t;
      int a[] = \{0x01, 0x03, 0x06, 0x04, 0x07, 0x02, 0x05, 0x08\};
      for(i = 0; i < 7; i++) {
          for (j = 0; j < 7 - i; j++) {
              if(a[j] < a[j+1]) {
                 t = a[j];
                 a[j] = a[j+1];
                 a[j+1] = t;
              }
      TRISD = 0;
      for(i = 0; i < 8; i++) {
          PORTD = a[i];
          for (int n = 0; n < 1000; n++) {
              for (int k = 0; k < 100; k++) {
          }
```