LAB Z80

present to

ENG : Mohammed Issa

by

Mostafa Elsayed Gohary

Eslam Mammdouh Khalil

Ahmed Ismail Elsayed Ismail

Q 1. State the differences between non-maskable and maskable interrupts ?

Maskable Interrupts : Those interrupts whose request can be denied by microprocessor.

Non_maskable Interrupts :Interrupts whose request cannot be denied.

Q 2. What is (are) the difference(s) between ordinary subroutine and interrupt service routine?

Subroutine :

1- is a portion of code within a larger program, which performs a specific task .

2- runs when you call it.
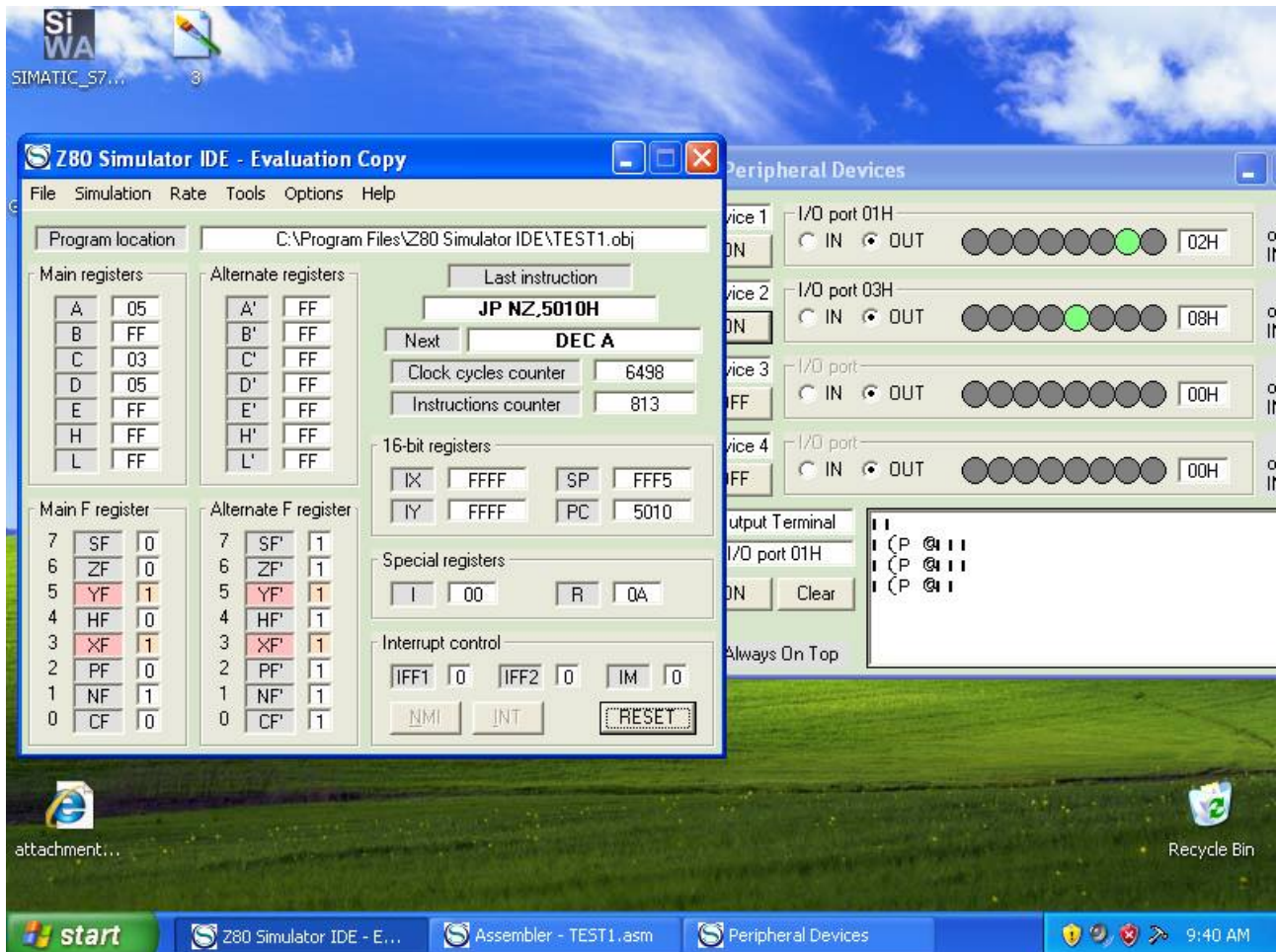
Interrupt Service Routine (ISR) :

1- is to handle hardware interrupts .

2- runs whenever a certain signal occurs .

Q 3. Record your observations, and comments throughout the experiment steps?

The   code

```
File  Edit  Tools  Options
0001    JP 5000H
0002   .ORG 0066H
0003     LD C ,03H
0004     LD A,08H
0005 X:
0006     OUT (C),A
0007     RR A |
0008     CALL WAIT
0009     JP X
0010
0011
0012 .ORG 0038H
0013
0014     LD C ,03H
0015     LD E,08H
0016 X1:
0017     OUT (C),E
0018     RR E
0019     CALL WAIT
0020     JP X1
0021

121 |
122
123
124  .ORG 5000H
125   EI
126   IM 1
127    LD C, 01H
128    LD D ,02H
129  Y:
130    OUT (C), D
131    RL D
```

the result

observations

INT : permit to press only one time

NMI : permit to press more times