

# Solution for Exercise 3

You can just **copy paste the solution** from the text below



```
//Program  
//-----Version 1.1  
//-----Author: Rajvir
```

```
/*  
Write a PLC program that monitors various sensors in  
a facility.  
If any sensor detects an abnormal condition, such as  
a high level  
or low level an alarm should be triggered.  
*/
```

```
//read inputs  
xSensor1 := _IO_EM_DI_00;  
xSensor2 := _IO_EM_DI_01;  
xSensor3 := _IO_EM_DI_02;  
xReset := _IO_EM_DI_03;  
  
if (xSensor1 OR xSensor2 OR xSensor3) THEN  
    iTemp := 99;  
END_IF;
```

```
if (iTemp = 99 AND xReset) THEN  
    iTemp := 0;  
END_IF;
```

```
xAlarm := iTemp = 99;
```

```
//Write outputs  
_IO_EM_DO_00 := xAlarm; //Alarm
```