

```
1. PORT( CLK: IN BIT;  
2.   X : IN INTEGER RANGE 15 DOWNT0 0;  
3.   Z : OUT INTEGER RANGE 15 DOWNT0 0);  
4. PROC1: PROCESS(CLK)  
5. BEGIN  
6.   FOR X IN 0 TO 10 LOOP  
7.     IF (X < 3) THEN  
8.       Z <= X;  
9.     ELSEIF (X > 5) THEN  
10.      Z <= 14 - X;  
11.    END IF;  
12.  END LOOP;  
13. END PROCESS PROC1;
```