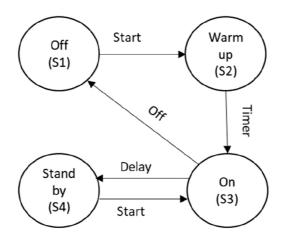
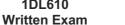


- Q1. Basis path testing is a black-box testing technique. (1pt)
  - o True
  - o False
- **Q2.** White-box testing is a kind of static testing. (1pt)
  - o True
  - o False
- Q3. In TDD, we write code when we fail a test. (1pt)
  - o True
  - o False
- **Q4.** Customer acceptance testing is a variation of beta testing. (1pt)
  - o True
  - o False
- **Q5.** The given test cases in the table below test only some of the valid transitions in the state transition diagram. (1pt)



Test case	1	2	3	4	5	6
Start state	S1	S2	S3	S4	S3	S4
Input	Start	Timer	Delay	Start	Off	Off
Expected end state	S2	S3	S4	<b>S</b> 3	<b>S1</b>	S1

- o True
- o False



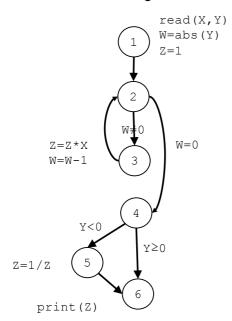
2023-08-15



**Q6.** Explain the difference between testing and debugging. (2pts)

<b>27</b> . List th	ee advantages and	three disadvantage	s of white-box testing. (	3pts)
<b>27.</b> List th	ree advantages and	three disadvantage	s of white-box testing. (	3pts)
Q7. List th	ee advantages and	three disadvantage	s of white-box testing. (	3pts)
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**Q8.** Consider the following control flow graph *CFG1*:









ependent



## 1DL610 Written Exam

2023-08-15

<ul> <li>Do the given candidate test paths satisfy edge-pair coverage? If not, identify what is missing.</li> <li>(2pts)</li> </ul>
List all prime paths of CFG2. (6pts)





## 1DL610 Written Exam

Q10.	. Consider a program that monitors the conditions in a plant growth chamber. The program takes
	two integer-input values: the temperature (T) in degrees Celsius and the light intensity (L) in
	lumens. The program will activate an alarm sound if one of these input value goes out of its optimal
	range. The temperature T ranges within the valid interval [21, 24]. The light intensity L ranges
	within the valid interval [7000, 7500].

within the valid interval [7000, 7500].		
<ul> <li>Generate the test cases for this program</li> </ul>	n using Robust Boundary Values Analysis. (5pts)	