

## FinTech Unit 21 Advanced Solidity Homework Grading Rubric

Criteria	Ratings			
<b>Designing the contracts</b> <ul style="list-style-type: none"> <li>• <b>ERC20 PupperCoin</b> contract set up.</li> <li>• <b>PupperCoinCrowdsale</b> set up and bootstrap with assigned criteria.</li> <li>• <b>Crowdsale Rate</b> customized or hardcoded.</li> <li>• <b>PupperCoinCrowdsaleDeployer</b> deployment model after <b>ArcadeTokenCrowdsaleDeployer</b>.</li> </ul>	<b>35 Points Mastery</b> <ul style="list-style-type: none"> <li>• Completed 4 out of 4 requirements</li> <li>• Code runs without error and produces the assigned results</li> <li>• Code accounts for all possible scenario</li> <li>• Code is free of bugs</li> </ul>	<b>34 &gt; 28 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>• Completed 3 out of 4 of requirements</li> <li>• Code runs without error</li> <li>• Code produces results as expected 80% of the time</li> </ul>	<b>28 &gt; 23 Points Progressing</b> <ul style="list-style-type: none"> <li>• Completed fewer than 2 out of 4 requirements</li> <li>• Code runs without error</li> <li>• Code produces results, but not necessarily the correct results</li> </ul>	<b>23 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>• Completed 1 or none out of the 4 requirements</li> <li>• No submission</li> <li>• Code runs with error</li> </ul>
<b>Testing the Crowdsale</b> <ul style="list-style-type: none"> <li>• Crowdsale tested by sending ether to different account, screenshots provided.</li> <li>• Crowdsale's finalize function set up with assigned criteria.</li> <li>• <b>RefundablePostDeliveryCrowdsale</b> properly set up.</li> <li>• <b>Crowdsale deployed to Kovan or Ropsten testnet, screenshots</b> provided.</li> </ul>	<b>35 Points Mastery</b> <ul style="list-style-type: none"> <li>• Completed 4 out of 4 requirements</li> <li>• Code runs without error and produces the assigned results</li> <li>• Code accounts for all possible scenario</li> <li>• Code is free of bugs</li> </ul>	<b>34 &gt; 28 Points Approaching Mastery</b> <ul style="list-style-type: none"> <li>• Completed 3 out of 4 of requirements</li> <li>• Code runs without error</li> <li>• Code produces results as expected 80% of the time</li> </ul>	<b>28 &gt; 23 Points Progressing</b> <ul style="list-style-type: none"> <li>• Completed 2 out of 4 requirements</li> <li>• Code runs without error</li> <li>• Code produces results, but not necessarily the correct results</li> </ul>	<b>23 &gt; 0 Emerging</b> <ul style="list-style-type: none"> <li>• Completed 1 or none of the 4 requirements</li> <li>• No submission</li> <li>• Code runs with error</li> </ul>
<b>Coding Conventions/Formatting</b> <ul style="list-style-type: none"> <li>• Appropriate header, name, short description at top of the notebook</li> <li>• Imports are at the top of the file, just after any headers or subheads.</li> <li>• Files read in from relative file path</li> <li>• Functions and variable names are descriptive, lowercase, with words separated by underscores</li> <li>• Clean code, no repetition, maintainable and highly reusable code.</li> <li>• Appropriate code wrapping and cell sizes</li> <li>• Appropriate subheads as needed</li> </ul>	<b>10 Points Mastery</b>	<b>9 Points Approaching Mastery</b>	<b>8 Points Progressing</b>	<b>8 &gt; 0 Emerging</b>

<b>Deployment/Submission</b> <ul style="list-style-type: none"> <li>• Files submitted in personal repo</li> <li>• Appropriate directory structure with correct files needed to run scripts</li> <li>• Appropriate commit messages</li> <li>• Appropriate README</li> </ul>	<b>10 Points Mastery</b>	<b>9 Points Approaching Mastery</b>	<b>8 Points Progressing</b>	<b>8 &gt; 0 Emerging</b>
<b>Documentation/Comments</b> <ul style="list-style-type: none"> <li>• Code is well commented with concise, relevant comments</li> </ul>	<b>10 Points Mastery</b>	<b>9 Points Approaching Mastery</b>	<b>8 Points Progressing</b>	<b>8 &gt; 0 Emerging</b>