

FinTech Unit 20 Solidity Homework Grading Rubric

All Levels

Coding Conventions/Formatting <ul style="list-style-type: none">• Appropriate header, name, short description at top of the notebook• Imports are at the top of the file, just after any headers or subheads.• Files read in from relative file path• Functions and variable names are descriptive, lowercase, with words separated by underscores• Clean code, no repetition, maintainable and highly reusable code.• Appropriate code wrapping and cell sizes• Appropriate subheads as needed	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Deployment/Submission <ul style="list-style-type: none">• Files submitted in personal repo• Appropriate directory structure with correct files needed to run scripts• Appropriate commit messages• Appropriate README	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Documentation/Comments <ul style="list-style-type: none">• Code is well commented with concise, relevant comments	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging

Level 1

Criteria	Ratings			
Contract Setup <ul style="list-style-type: none"> • public variables defined per assigned criteria. • Constructor function created accepting address payable _one. • Constructor function created accepting address payable _two. • Constructor function created accepting address payable _three. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed fewer than 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Contract Functionality <ul style="list-style-type: none"> • balance function created with assigned criteria. • deposit function created with assigned criteria. • fallback function created with assigned criteria. • Contract tested; screenshots provided. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none of the 4 requirements • No submission • Code runs with error

Level 2

Criteria	Ratings			
Contract Setup <ul style="list-style-type: none"> • Number of points calculated by dividing msg.value. • uint amount set to points for each employee. • amount added to total used to calculate the msg.value distribution. • amount transfer to each employee, amount set to the points and multiplied by given percentage. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed fewer than 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Contract Functionality <ul style="list-style-type: none"> • remainder sent employee with highest percentage. • Contract Deployed. • Contract Tested, screenshots provided. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 3 out of 3 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 2 out of 3 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed 1 out of 3 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed fewer than 1 or none of the 3 requirements • No submission • Code runs with error

Level 3

Criteria	Ratings			
Contract Setup <ul style="list-style-type: none"> • Human Resources set as the constructor <i>msg.sender</i>. • employee initiation variables created. • uint start_time and uint public distributed_shares defined to assigned criteria. • distribute function created with defined criteria. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed fewer than 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Contract Functionality <ul style="list-style-type: none"> • Contract deployed locally, screenshots provided. • Contract Tested with <i>fakenow</i> testing logic. • Contract deployed to a live Testnet, screenshots provided. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 3 out of 3 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 2 out of 3 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed 1 out of 3 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed fewer than 1 or none of the 3 requirements • No submission • Code runs with error