|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PYTHON TEMPERATURE CONVERTER CHALLENGE RUBRIC** | | | | | | | | |
|  |  | | | | | | **Possible Mark** | **Mark Obtained** |
|  | **User Interface Design using tkinter** | | | | | |  |  |
| **Design specifications** | 8 | 6 | | | 4 | 2 | **10** |  |
| All widgets (controls) work correctly as should be. Add 2 marks extra if there has been an attempt to beautify the interface | 75% Design structures implemented | | | Half of the controls work well | An attempt made to use tkinter but more than 75% of the controls do not work |  |  |
|  | **Appropriate variable naming conventions** | | | | | |  |  |
| 4 | 3 | | | 2 | 1 | **4** |  |
| Variable naming follow specific convention and its uniform | Variable naming is consistent but with a few not meaningful | | | Half of the variables are not meaningful | No conventions used. Variable names not meaningful |  |  |
| **Use of Selection Structures (IF, ELIF, Else )** | | | | | | | |
| 8 | 6 | | | 4 | 2 | **8** |  |
| Used appropriate and most effective selection structures to solve the problem in all instances | Used appropriate and most effective selection structures in most instances | | | Appropriate and most effective use of selection structures in less than 50% of the instances | Inappropriate or ineffective use of selection structures |  |  |
| **Program Solution** | **Use of Functions, (parameter passing) including in-built functions** | | | | | |  |  |
| 20 | 15 | | | 10 | 5 | **20** |  |
| Excellent interaction/ communication between modules/classes. Includes parameter passing | Proficient/appropriate use of modules/functions or other sub-procedures with small flaws. Includes parameter passing between modules/ functions or other sub-procedures but not always appropriate or correct. | | | Limited use of modules/functions or other sub-procedures. Limited parameter passing | No use of modules/functions or other sub-procedures. No parameters passed |  |  |
|  | **Program Compiles Successfully** | | | | | |  |  |
| 8 | 6 | | | 4 | 2 | **8** |  |
| No run time or syntax errors. All the options are executed successfully | Program produce runtime errors only | | | Some of the options produce errors when executed | Majority of the code produce errors. No evidence of tests |  |  |
| **Program Documentation** | | | | | |  |  |
| 5 | 4 | | | 2 | 1 | **5** |  |
| Code well documented in all paths | 75% of code documented | | | Only 50%of code is documented | Just 20% of the code is documented |  |  |
| **Packaging** | **Executable file created** | | | | | | **3** |  |
| **General Evaluation** | **Time Management: (0 = always late, work was never done)** | | | | | |  |  |
| 8 | | | 6 | | 4 | **2** |  |
| All deadlines met | | Project submitted few hours after due date | | | Project submitted after interventions |  |  |
|  | | | | | | **60** |  |

|  |  |  |  |  |  |
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| **FINAL COMPETENCE LEVEL INDICATORS** | | | | | |
| **Outstanding** | **Highly competent** | | **Competent** | **Not yet competent** | **Not achieved** |
| **5** | **4** | | **3** | **2** | **1** |
| **Student’s Competence Level:** | | **PASS ☐ FAIL ☐** | | | |
| **Student’s Name and Signature:** | |  | | | |
| **Lecturer’s Signature:** | |  | | | |
| **Date:** | |  | | | |
| **Feedback to student-(Facilitators are expected to give students constructive feedback on positive areas and also areas which require more attention)** | | | | | |