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| **Course Name:** Fundamentals of Programming & Data Science | **Course Code:** CMPE-112L |
| **Assignment Type:** Lab Quiz | **Dated:** 4th March 2024 |
| **Semester:** 2nd | **Session:** 2023 |
| **Lab/Project/Assignment #:** Quiz 1 | **CLOs to be covered: CLO 1, CLO2** |
| **Lab Title:** Mid Term Evaluation | **Teacher Name:** Engr. Afeef Obaid |
| **Total Marks: 20 Marks** | **Time allowed: 60 Minutes** |

**Mid Term Evaluation**

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| **CLO 1** | * Apply appropriate programming techniques to create executable programs to solve well defined problems |
| **CLO 2** | * Practice collaboratively on large problems and provide their working solutions |

**Rubrics for Current Lab Evaluation**

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| **Scale** | **Marks** | **Level** | **Rubric** |
| Excellent | **17-20** | L1 | Both lab tasks working properly with bonus task. |
| Very Good | **13-16** | L2 | Submitted both lab tasks and both working properly. |
| Good | **9-12** | L3 | Submitted both lab tasks but one is working properly. |
| Basic | **5-8** | L4 | Submitted both lab tasks but have some errors. |
| Barely  Acceptable | **1-4** | L5 | Submitted only one lab task but have some errors |
| Not Acceptable | **0** | L6 | Did not attempt |

**TASK # 1 (CLO 1)**

Create a program that simulates a bank's transaction system. Use dictionaries to store account information (account number, balance, account holder name and CNIC) and implement methods for create\_account, deposit\_money, withdrawal\_money, transfer\_money between accounts and display\_all\_accounts.

**TASK # 2 (CLO 2)**

Calculating and providing information on the number of notes or coins ofRs.1, Rs.2, Rs.5, Rs.10, Rs.20, Rs.50, Rs.100, Rs.500, Rs.1000, and Rs.5000 that need to be returned when user withdraw money.

**Bonus Task:** Insert Doc Strings and comments in your provided code.