College Name – Lamrin Tech Skills University Punjab.  
Course Name – Design Thinking & Critical Thinking.   
Batch No- 2024  
Roll No – 24100130006  
presented by – Sudhir Bhardwaj  
branch- BTech ( Electrical Engineering )  
Task no # 02 – Complex Problem Table   
  
Subtitle – Application across different domains

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| **S. No** | **Application Domain** | **Complex Problem Identified** | **Justification** |
| **1.** | Transportation | Optimizing urbon traffic flow | The problem requires real-time analysis of traffic pattern . integration of IoT – based solution.and coordination with public transportation. Studies indicate difficulties in scalability and adapting to  unforeseen events like accidents or weather changes. |
| **2.** | Environmental Management | Reducing carbon  emissions in industrial sectors | Literature identifies challenges in balancing industrial growth with environmental sustainability.The problem involves multiple skateholders . evolving regulations , and  technological constaints for adopting green practices . |
| **3.** | Healthcare | Managing Patient data in Large hospitals | The problem involves integrating electronic health record (EHRs) across various departments while  ensuring data security and compliance with regulations. Literature highlights challenges due  to data volume , privacy concerns , and interoperability issues . |