# DATA COMMUNICATION PROJECT REPORT

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## OVERVIEW

### 1. Project Background and Description

> ℹ *This project is an attempt to simulate realistic error detection and correction in data transmission by implementing Cyclic Redundancy Check (CRC) & 7-bit hamming code using binary symmetric channel & random error generation.*

### 2. Language and Libraries

> ℹ *Language: The coding part for this project has been done in C++ language. C++ is preferred for it's speed and gives a wide range of in-built libraries (STL).*

### 3. How to run the code?

> ℹ *Basic C++ execution environment is required.*

### 4. References

> ℹ *GEEKSFORGEEKS, YOUTUBE, STACKOVERFLOW, WIKIPEDIA.*

### 5. Acknowledgement

> ℹ *Ms, Iqra Gillani (Course Instructor).*