### Shri Vile Parle Kelavani Mandal's



# INSTITUTE OF TECHNOLOGY

## DHULE (M.S.)

#### DEPARMENT OF COMPUTER ENGINEERING

**Subject: Competitive Programming Lab** 

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Class: TY. Comp. Engg. Batch: T2 Division: T

Expt. No. :07 Date: 24/03/2025

**Title: QWERTY Problem** 

Signature

Remark

#### Language: C++

```
// QWERTY Problem by Meraj 32 T2
#include <iostream>
#include <string>
using namespace std;
// All the keys in physical order:
const char keyboard[] =
  "1234567890-="
  "QWERTYUIOP[]\\"
  "ASDFGHJKL;\""
  "ZXCVBNM,./";
// Return the key immediately to the left of c, or c itself if not found.
char decode(char c) {
  for (int i = 1; keyboard[i]; ++i) {
    if (keyboard[i] == c)
      return keyboard[i - 1];
  return c;
int main() {
  string line;
```

```
while (true) {
    // Prompt for input
    cout << "Input:\n";
    if (!getline(cin, line)) break;  // EOF or error → exit loop

    // Show output header
    cout << "Output:\n";

    // Decode and print each character
    for (char c : line)
        cout << decode(c);
    cout << "\n\n";  // blank line before next prompt
    }
    return 0;
}</pre>
```

#### **Output:**

