**A**

**PROJECT REPORT**

**ON**

**“Flashcard Quiz”**

SUBMITTED BY:

**Samrudhi Ravindra Nikumbh(2124UCEF1043)**

SUBJECT:

# C++ PROGRAMMING

Under the guidance of

**Miss. Ishwari Tirse**



**Department of Computer Science and Engineering**

**Sanjivani Rural Education Society’s**

# SANJIVANI UNIVERSITY

**KOPARGAON – 423603, DIST : AHMEDNAGAR**

**2024-2025**

# 

# INDEX

|  |  |  |
| --- | --- | --- |
| **SR.**  **NO** | **CONTENT** | **PAGE NO.** |
| **1.** | **INTRODUCTION** |  |
| **2.** | **CODE** |  |
| **3.** | **OUTPUT** |  |
| **4.** | **CONCLUSION** |  |

**INTRODUCTION**

The Flashcard Quiz project is a console-based application developed in C++ that allows users to create and use flashcards for studying purposes. Users can input questions and corresponding answers, and the program quizzes them by randomly displaying the flashcards. This project emphasizes user input handling, randomization, and score tracking, making it a valuable educational tool for reinforcing learning and memory retention.

|  |  |
| --- | --- |
| **CODE**    #include <iostream  #include <vector>  #include <string>  struct Question {  std::string question;  std::vector<std::string> options;  char correctAnswer;  };  void displayQuestion(const Question& q) {  std::cout << q.question << std::endl;  for (char option = 'A'; option < 'A' + q.options.size(); ++option) {  std::cout << option << ": " << q.options[option - 'A'] << std::endl;  }  }  char getAnswer() {  char answer;  std::cout << "Your answer (A/B/C/D): ";  std::cin >> answer;  return toupper(answer);  }  int main() {  std::vector<Question> quiz = {  {"What is the capital of France?", {"Berlin", "Madrid", "Paris", "Rome"}, 'C'},  {"What is 2 + 2?", {"3", "4", "5", "6"}, 'B'},  {"What is the color of the sky?", {"Green", "Blue", "Red", "Yellow"}, 'B'  }; | 4 |

# OUTPUT

**What is the capital of France?**

**A: Berlin**

**B: Madrid**

**C: Paris**

**D: Rome**

**Your answer (A/B/C/D): C**

**Correct!**

**What is 2 + 2?**

**A: 3**

**B: 4**

**C: 5**

**D: 6**

**Your answer (A/B/C/D): A**

**Wrong!**

**The correct answer was: B**

**What is the color of the sky?**

**A: Green**

**B: Blue**

**C: Red**

**D: Yellow**

**Your answer (A/B/C/D): B**

**Correct!**

**Your total score: 2 out of 3**

**CONCLUSION**

The C++ flash quiz program demonstrates a straightforward yet effective way to engage users with interactive learning. By utilizing a structured approach with a Question struct and basic input/output operations, the program allows users to test their knowledge across various topics. The scoring mechanism provides immediate feedback, enhancing the learning experience. This implementation serves as a foundation that can be expanded with more questions, different question types, or even a graphical user interface for a more engaging user experience. Overall, it showcases the potential of C++ for creating educational tools while promoting critical thinking and retention of information.