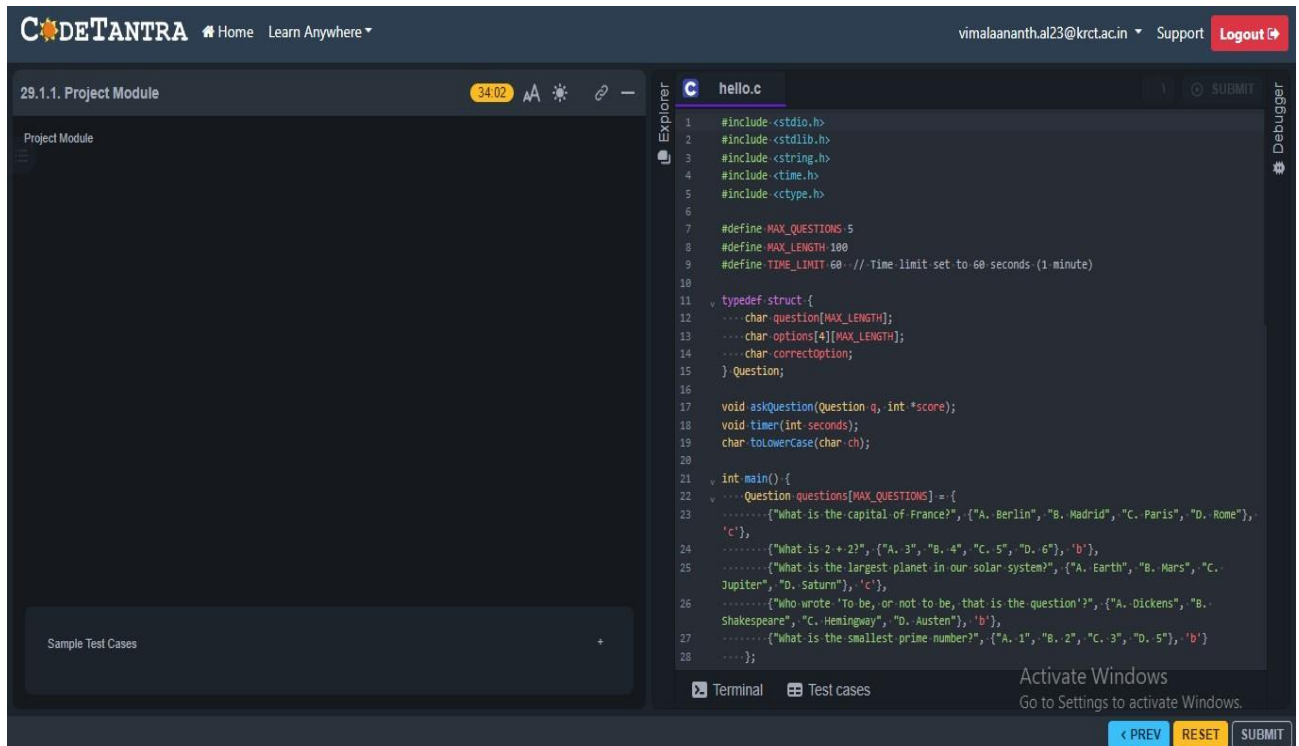


APPENDIX B - SCREENSHOTS

RESULT AND DISCUSSION

OUTPUT IN CODETANTRA

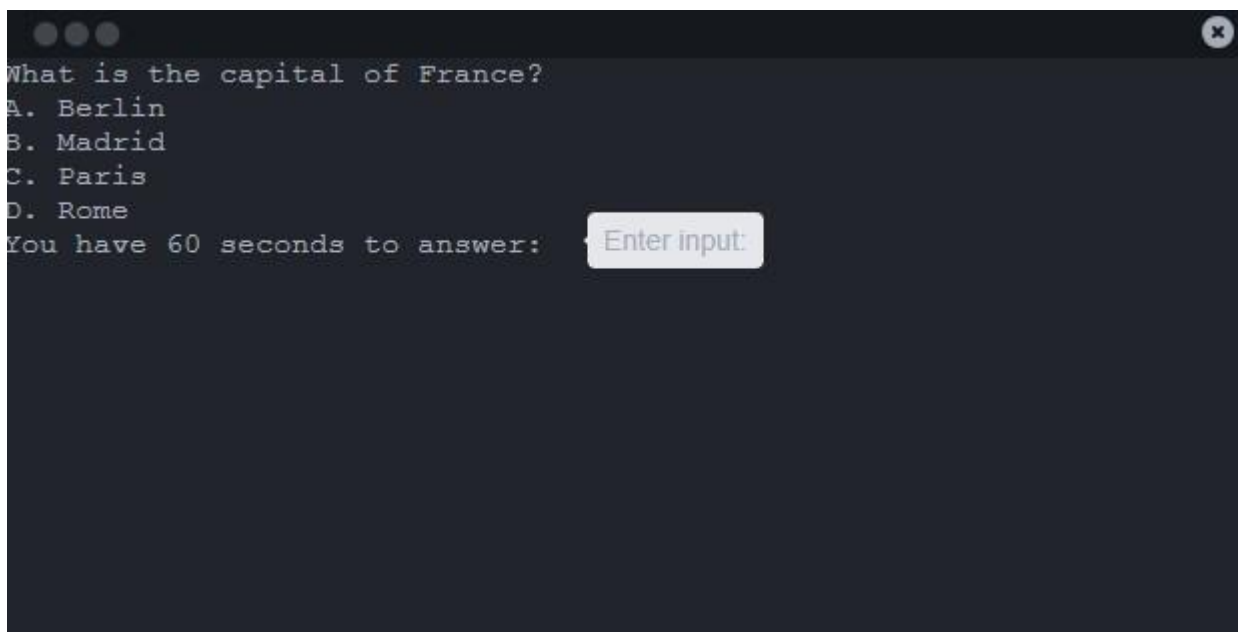


The screenshot shows the CODETANTRA IDE interface. The top bar includes the logo, navigation links (Home, Learn Anywhere), a user profile (vimalaananth.al23@krct.ac.in), and a Logout button. The left sidebar shows a 'Project Module' section with a 'Sample Test Cases' button. The main editor displays a C program named 'hello.c' with the following code:

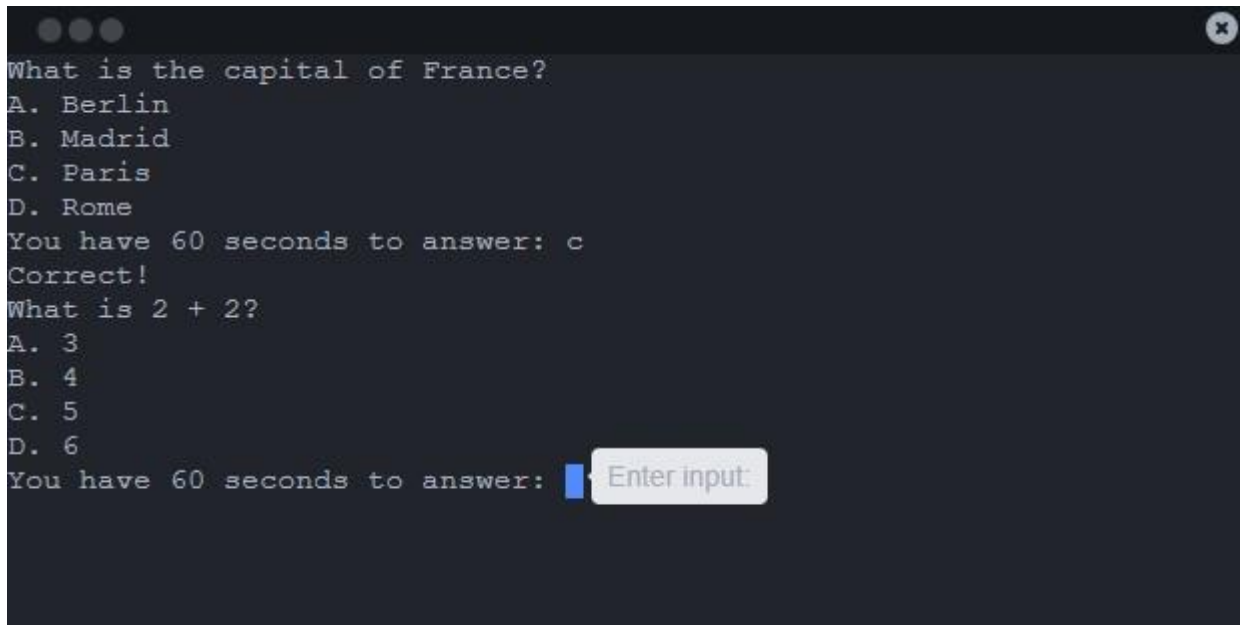
```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <time.h>
5 #include <ctype.h>
6
7 #define MAX_QUESTIONS 5
8 #define MAX_LENGTH 100
9 #define TIME_LIMIT 60 // Time limit set to 60 seconds (1 minute)
10
11 typedef struct {
12     char question[MAX_LENGTH];
13     char options[4][MAX_LENGTH];
14     char correctOption;
15 } Question;
16
17 void askQuestion(Question q, int *score);
18 void timer(int seconds);
19 char toLowerCase(char ch);
20
21 int main() {
22     Question questions[MAX_QUESTIONS] = {
23         {"What is the capital of France?", {"A. Berlin", "B. Madrid", "C. Paris", "D. Rome"},
24         'c'},
25         {"What is 2 + 2?", {"A. 3", "B. 4", "C. 5", "D. 6"}, 'b'},
26         {"What is the largest planet in our solar system?", {"A. Earth", "B. Mars", "C. Jupiter", "D. Saturn"}, 'c'},
27         {"Who wrote 'To be, or not to be, that is the question'?", {"A. Dickens", "B. Shakespeare", "C. Hemingway", "D. Austen"}, 'b'},
28         {"What is the smallest prime number?", {"A. 1", "B. 2", "C. 3", "D. 5"}, 'b'}
29     };
30 }
```

At the bottom of the editor, there are buttons for 'Terminal', 'Test cases', and 'Submit'. A message 'Activate Windows Go to Settings to activate Windows.' is also visible.

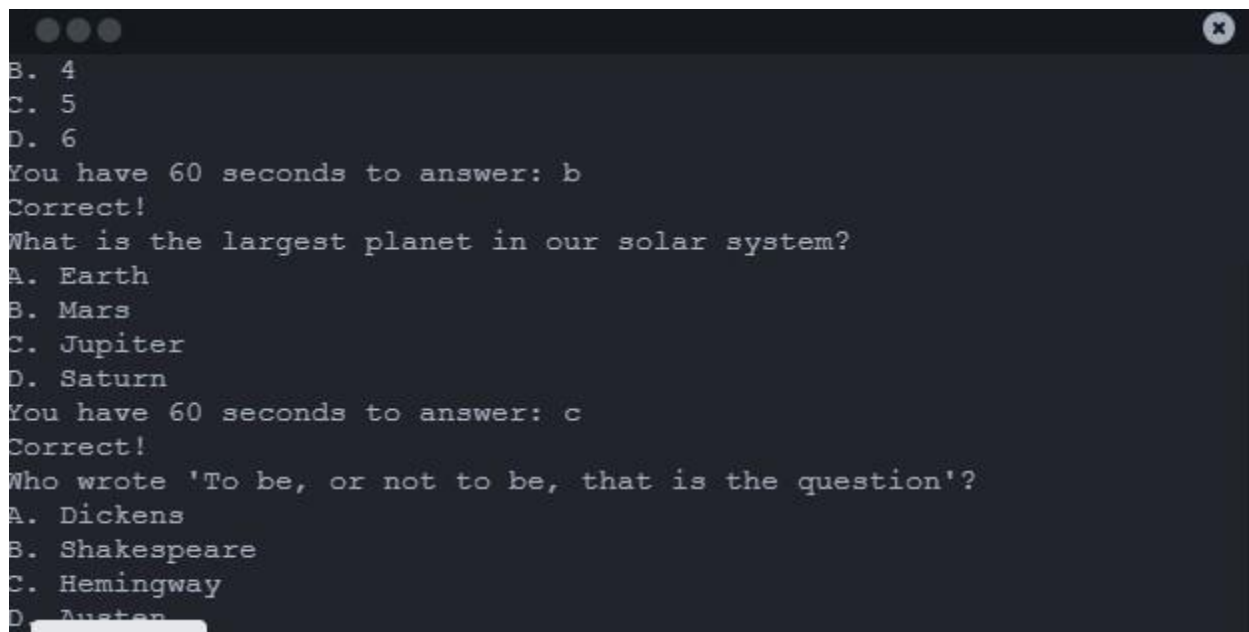
OUTPUT 1



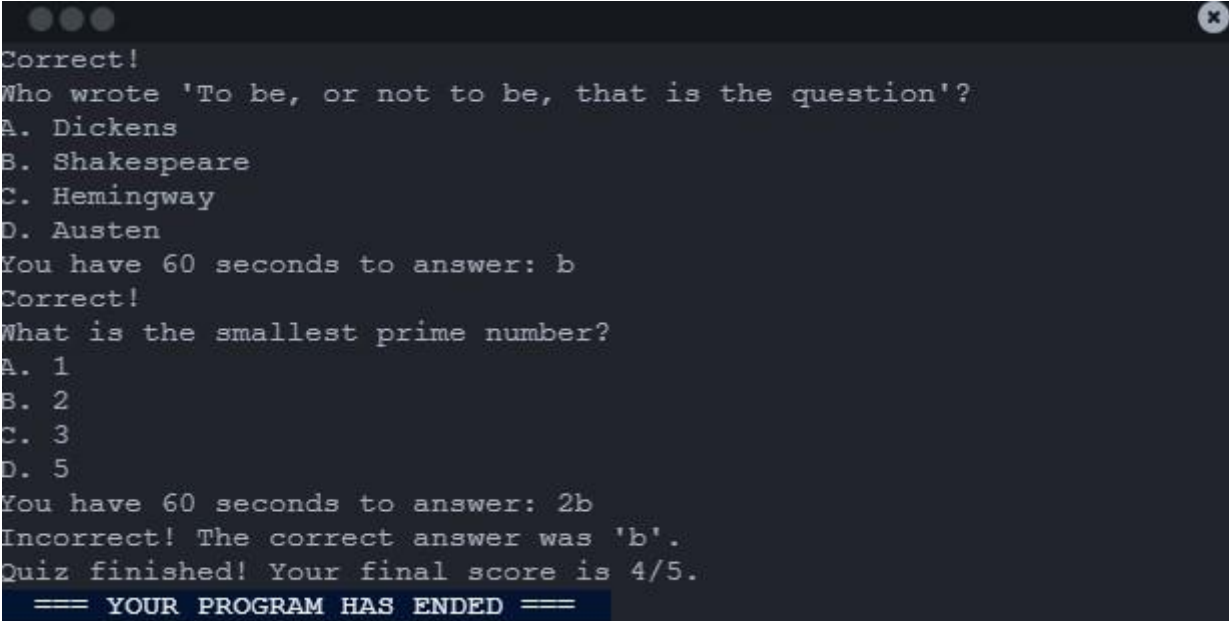
OUTPUT 2



OUTPUT 3



OUTPUT 4

A terminal window with a dark background and light gray text. The window has three small circles in the top-left corner and a close button (an 'x' in a circle) in the top-right corner. The text inside the window is as follows:

```
Correct!
Who wrote 'To be, or not to be, that is the question'?
A. Dickens
B. Shakespeare
C. Hemingway
D. Austen
You have 60 seconds to answer: b
Correct!
What is the smallest prime number?
A. 1
B. 2
C. 3
D. 5
You have 60 seconds to answer: 2b
Incorrect! The correct answer was 'b'.
Quiz finished! Your final score is 4/5.
=== YOUR PROGRAM HAS ENDED ===
```