

## Experiment - 12 (Preprocessor and Directives in C)

Q. WAP to define some Constant Variable in preprocessor.

```
#include <stdio.h>
#define PI 3.14159
#define MAX_STUDENTS 50
#define COUNTRY "INDIA"
#define YEAR 2025
```

```
int main() {
    printf("Value of PI: %.f\n", PI);
    printf("Maximum Students Allowed: %.d\n", MAX_STUDENTS);
    printf("Country: %s\n", COUNTRY);
    printf("Year: %.d\n", YEAR);
    return 0;
}
```

A screenshot of a dark-themed code editor, likely Visual Studio Code, displaying a C programming project. The top navigation bar shows tabs for "Welcome", "C #include <stdio.h> Untitled-1", and "C C PROGRAMMING PROJECT .c". The main editor area contains the following C code:

```
1 #include <stdio.h>
2
3 #define PI 3.14159
4 #define MAX_STUDENTS 50
5 #define COUNTRY "India"
6 #define YEAR 2025
7
8 int main() {
9     printf("Value of PI : %f\n", PI);
10    printf("Maximum Students Allowed : %d\n", MAX_STUDENTS);
11    printf("Country : %s\n", COUNTRY);
12    printf("Year : %d\n", YEAR);
13
14    return 0;
15 }
```

The bottom terminal tab shows the execution of the code and its output:

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Value of PI : 3.14159
Maximum Students Allowed : 50
Country : India
Year : 2025
rajatsingh@Rajats-MacBook-Air ~ %
```

The status bar at the bottom right indicates "Ln 15, Col 2" and "Spaces: 4". A context menu is open in the bottom right corner with options like "Add Context...", "Add context (#)", "Agent", and "Auto".