

Experiment - 12 (Preprocessor and Directives in C)

Q. WAP to define some constant variable in preprocessor.

```
#include <stdio.h>
#define PI .314159
#define MAX-STUDENTS 50
#define COUNTRY "INDIA" "India"
#define YEAR 2025
```

```
int main() {
    printf("Value of PI: %.f/n", PI);
    printf("Maximum Students Allowed: %.d/n", 20
        MAX-STUDENTS);
    printf("Country: %s/n", COUNTRY);
    printf("Year: %.d/n", YEAR);
```

```
    return 0;
```

```
}
```

The image shows a screenshot of a Visual Studio Code (VS Code) editor window. The editor is open to a file named "C PROGRAMING PROJECT .c". The code in the editor is a C program that defines constants and prints their values.

```
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 terminal window at the bottom shows the execution of the program. The command used is `cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile`. The output of the program is:

```
Value of PI : 3.141590
Maximum Students Allowed : 50
Country : India
Year : 2025
```

The status bar at the bottom right indicates the current position in the file: "Ln 15, Col 2 Spaces: 4 UT".