Program to take string as input in c programming.

```
#include <stdio.h>
#define MAX_LENGTH 100

int main() {
    char input[MAX_LENGTH];

    printf("Enter a string: ");
    scanf("%s", input);

    printf("You entered: %s\n", input);

    return 0;
}
```

## **Explanation:**

- 1. The #include <stdio.h> line includes the standard input/output library, which provides functions like printf() and scanf().
- 2. The #define MAX\_LENGTH 100 line is a preprocessor directive that defines a constant named MAX\_LENGTH with a value of 100. This constant will be used to specify the maximum length of the string.
- 3. The main() function is the entry point of the program.
- 4. The char input[MAX\_LENGTH]; line declares an array named input with a size of MAX\_LENGTH. This means the input array can hold a string of up to 100 characters (including the null terminator).
- 5. The printf() function displays the message "Enter a string: " to prompt the user for

input.

- 6. The scanf() function with the %s format specifier is used to read a string from the user's input. The %s format specifier is used to read a string without spaces. The string is stored in the input array.
- 7. The printf() function displays the message "You entered: " followed by the value stored in the input array, using the %s format specifier.
- 8. The return 0; statement indicates the successful completion of the main() function, and the program terminates.



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