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|  | **Problem statement**  **Use Macro Features Of C language** |

**SOLUTION:**

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| **CODE:**  #include <stdio.h>  // Define a macro for the value of PI  #define PI 3.1415  // Define a macro for calculating the area of a circle  #define CIRCLE\_AREA(r) (PI \* (r) \* (r))  // Define a macro for the maximum of two numbers  #define MAX(a, b) ((a) > (b) ? (a) : (b))  // Define a macro for printing a message  #define PRINT\_MSG(msg) printf("%s\n", msg)  int main() {  float radius, area;  int num1, num2, max;  // Using the CIRCLE\_AREA macro  printf("Enter the radius of the circle: ");  scanf("%f", &radius);  area = CIRCLE\_AREA(radius);  printf("Area of the circle: %.2f\n", area);  // Using the MAX macro  printf("Enter two numbers: ");  scanf("%d %d", &num1, &num2);  max = MAX(num1, num2);  printf("The maximum of %d and %d is %d\n", num1, num2, max);  // Using the PRINT\_MSG macro  PRINT\_MSG("This is a message printed using a macro!");  return 0;  }  **OUTPUT:** |