Write a program to display present date and time using c language

```
#include <stdio.h>
int main(){
  printf("Date :%s\n", __DATE__ );
  printf("Time :%s\n", __TIME__ );
 return 0;
}
2) Write a c program to demonstrate pre-processor directives
     i) Macros
     #include <stdio.h>
     // Define a macro for finding the maximum of two numbers
     #define MAX(x, y) ((x) > (y) ? (x) : (y))
     // Define a macro to print a message
     #define PRINT MSG(msg) printf("Message: %s\n", msg)
     g
     // Define a macro to calculate the square of a number
     #define SQUARE(x) ((x) * (x))
     int main() {
       int a = 10, b = 20;
       // Using MAX macro to find the maximum of two numbers
       printf("Maximum of %d and %d is %d\n", a, b, MAX(a, b));
```

```
// Using PRINT_MSG macro to print a message
PRINT_MSG("Hello, world!");

// Using SQUARE macro to calculate the square of a number
printf("Square of %d is %d\n", a, SQUARE(a));

return 0;
}
```

In this program:

- We first include the standard input-output library <stdio.h>.
- Then, we define three macros using #define directive:
  - MAX(x, y): This macro takes two arguments x and y and returns the maximum of the two.
  - **PRINT\_MSG(msg)**: This macro takes a single argument **msg** and prints it as a message.
  - **SQUARE(x)**: This macro takes a single argument **x** and returns the square of it.
- In the main() function, we demonstrate the usage of these macros:
  - We use MAX macro to find the maximum of two numbers a and b.
  - We use **PRINT MSG** macro to print a message.
  - We use SQUARE macro to calculate the square of a number
     a.
- The macros are expanded during preprocessing, before the actual compilation of the program.
  - ii) Conditional Compilation.

#include <stdio.h>

```
#define DEBUG
int main() {
    #ifdef DEBUG
    printf("Debugging mode is enabled.\n");
    #else
    printf("Debugging mode is disabled.\n");
    #endif
    return 0;
}
```