SEM 3\Exp8\Makefile

```makefile
 1  # Compiler to use
 2  CC = gcc
 3
 4  # Compiler flags
 5  CFLAGS = -Wall -Wextra -g
 6
 7  # Object files to compile
 8  OBJS = main.o bubble_Sort.o insertion_Sort.o Selection_sort.o quick_sort.o
    shell_Sort.o
 9
10  # The final executable name
11  TARGET = Exp8_sorting_program
12
13  # Default target to build the executable
14  all: $(TARGET)
15
16  # Rule to link object files into the final executable
17  $(TARGET): $(OBJS)
18      $(CC) -o $(TARGET) $(OBJS)
19
20  # Rule to compile each .c file into a .o file
21  %.o: %.c
22      $(CC) $(CFLAGS) -c $<
23
24  # Clean target to remove object files and the executable
25  clean:
26      rm -f $(OBJS) $(TARGET)
27
```