//program to calculate the fine on volume library books

#include <stdio.h>

int main() {

int bookID, dueDate, returnDate, daysOverdue;

printf("Enter Book ID: ");

scanf("%d", &bookID);

printf("Enter Due Date: ");

scanf("%d", &dueDate);

printf("Enter Return Date: ");

scanf("%d", &returnDate);

// Calculate days overdue

daysOverdue = returnDate - dueDate;

// Determine fine rate

int fine;

if (daysOverdue <= 7) {

fine = daysOverdue \* 20;

} else if (daysOverdue <= 14) {

fine = 7 \* 20 + (daysOverdue - 7) \* 50;

} else {

fine = 7 \* 20 + 7 \* 50 + (daysOverdue - 14) \* 100;

}

// Display book ID, due date, return date, and fine

// calculate fine amount

printf("\nBook ID: %d\n", bookID);

printf("Due Date: %d\n", dueDate);

printf("Return Date: %d\n", returnDate);

printf("Fine: Ksh. %d\n", fine);

return 0;

}