

Exercises for lab 4 of CS2211b

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The lab exercises are taken from programming projects 10 in Chapter 5 and programming projects 6,8 in Chapter 6 of the book: C programming language: a modern approach (second edition), by K. N. King.

1 Chapter 5

1.1 Exercise 10

Using the `switch` statement, write a program that converts a numerical grade into a letter grade:

```
Enter numerical grade: 84
Letter grade: B
```

Use the following grading scale: $A = 90 - 100$, $B = 80 - 89$, $C = 70 - 79$, $D = 60 - 69$, $F = 0 - 59$. Print an error message if the grade is larger than 100 or less than 0.

2 Chapter 6

2.1 Exercise 4

Write a program that prompts the user to enter a number n , then prints all even squares between 1 and n . For example, if the user enters 100, the program should print the following:

```
4
16
36
64
100
```

2.2 Exercise 8

Write a program that prints a one-month calendar. The user specifies the number of days in the month and the day of the week on which the month begins:

```
Enter number of days in month: 31
```

```
Enter starting day of the week (1=Sun, 7=Sat): 3
```

```
      1  2  3  4  5
  6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```