

Question 1 Code:

```
[184]: def movie_time():
        ''' Function that asks user the number of hours, minutes, and seconds in the movie. '''
        hours = int(input("How many hours is the movie: "))
        minutes = int(input("How many minutes is the movie: "))
        seconds = int(input("How many seconds is the movie: "))
        time_seconds = 58 + seconds
        if time_seconds >= 60:
            minutes_added = int(time_seconds / 60)
            time_seconds = time_seconds % 60
            minutes = minutes_added + minutes
        time_minutes = 35 + minutes
        if time_minutes >= 60:
            hours_added = int(time_minutes / 60)
            time_minutes = time_minutes % 60
            hours = hours_added + hours
        time_hours = 13 + hours
        if time_hours >= 24:
            time_hours = time_hours % 24
        end_time = str(time_hours) + ":" + str(time_minutes) + ":" + str(time_seconds)
        return(end_time)
```

Question 1 Output:

```
[185]: movie_time()

How many hours is the movie: 1
How many minutes is the movie: 21
How many seconds is the movie: 35

[185]: '14:57:33'

[186]: movie_time()

How many hours is the movie: 0
How many minutes is the movie: 122
How many seconds is the movie: 8

[186]: '15:38:6'

[187]: movie_time()

How many hours is the movie: 2
How many minutes is the movie: 0
How many seconds is the movie: 200

[187]: '15:39:18'
```

Question 2 Code:

```
[188]: def draw_pattern():
    rows = int(input("Number of rows: "))
    columns = int(input("Number of columns: "))
    if columns == 1 and rows == 1:
        shape = "+"
    if columns == 1 and rows >= 2:
        top_row = "+"
        middle_row = "\n|" * (rows - 2)
        bottom_row = "\n+"
        shape = top_row + middle_row + bottom_row
    if rows == 1 and columns >= 2:
        col_dashes = "+" + " -" * (columns - 2) + " +"
        shape = col_dashes
    if rows >= 2 and columns >= 2:
        top_col_dashes = "+" + " -" * (columns - 2) + " +"
        bottom_col_dashes = "\n+" + " -" * (columns - 2) + " +"
        empty_spaces = "  " * (columns - 2)
        row_dashes = "\n| " + empty_spaces + "|"
        row_str = row_dashes * (rows - 2)
        shape = top_col_dashes + row_str + bottom_col_dashes
    print(shape)
```

Question 2 Output:

```
[191]: draw_pattern()
Number of rows: 1
Number of columns: 1
+
```

```
[192]: draw_pattern()
Number of rows: 1
Number of columns: 2
+ +
```

```
[194]: draw_pattern()
Number of rows: 1
Number of columns: 3
+ - +
```

```
[195]: draw_pattern()
Number of rows: 2
Number of columns: 1
+
+
```

```
[196]: draw_pattern()
Number of rows: 3
Number of columns: 1
+
|
+
```

```
[201]: draw_pattern()
Number of rows: 8
Number of columns: 9
+ - - - - - - - +
|
|
|
|
|
|
|
|
+ - - - - - - - +
```

```
[197]: draw_pattern()
Number of rows: 2
Number of columns: 2
+ +
+ +
```

```
[198]: draw_pattern()
Number of rows: 3
Number of columns: 4
+ - - +
|   |
+ - - +
```

```
[199]: draw_pattern()
Number of rows: 3
Number of columns: 6
+ - - - - +
|           |
+ - - - - +
```

```
[200]: draw_pattern()
Number of rows: 6
Number of columns: 6
+ - - - - +
|           |
|           |
|           |
|           |
+ - - - - +
```