

Traffic Signs

Instructions:

In this homework, we will use conditions and input output to tell users if they can park or not based on the traffic sign.

In JShell, name your function ParkingSign1, ParkingSign2, ParkingSign3, ... for each traffic sign.

Your function should ask the user for:

- The current day (Mon, Tue, Wed, Thu, Fri, Sat, Sun)
- The current time (hours and minutes)
- Any relevant additional information like school day (true or false), School business, special permit?
- Your program should exit if the input is not valid

Your function should print a message telling the user if they can park (Parking) or not (No Parking). If parking is allowed, the function should indicate for how long (up to midnight), if it is free or paid parking, or if they need a parking permit.

Note: The format of the input and printed text messages is up to you as long as the caption is detailed enough.

Submission: Save your JShell script in a single (.jsh) file and submit it to Gradescope.

Example: ParkingSign0



```
void ParkingSign0() {
    Scanner scan = new Scanner(System.in);
    System.out.println("Enter today's day (Mon, Tue, Wed, Thu,
Fri, Sat, Sun)");
    String day = scan.next();

    if (!day.equals("Mon") && !day.equals("Tue")
        && !day.equals("Wed") && !day.equals("Thu")
        && !day.equals("Fri") && !day.equals("Sat")
        && !day.equals("Sun") ) {
        System.out.println("Invalid day! Bye Bye!!!");
        return;
    }

    System.out.println("Enter today's time (hours only, 00 to
23)");
    int hour = scan.nextInt();

    if (hour < 0 || hour > 23) {
```

```

        System.out.println("Invalid hour! Bye Bye!!!");
        return;
    }

    System.out.println("Enter today's time (minutes only, 00 to 59)");
    int mins = scan.nextInt();

    if (mins < 0 || mins > 59) {
        System.out.println("Invalid minutes! Bye Bye!!!");
        return;
    }

    if (day.equals("Fri") && hour >= 10 && hour <= 11) {
        System.out.println("No parking");
    } else {
        int h1 = 10 - hour;
        int h2 = 23 - hour;
        int min = 59 - mins;
        if (day.equals("Fri") && hour < 10) {
            System.out.println("Free parking up to: " + h1 + "hour(s) " + min + "mins");
        }
        else{
            System.out.println("Free parking up to: " + h2 + "hour(s) " + min + "mins");
        }
    }
}

```

Traffic sign 1 (5 points) :



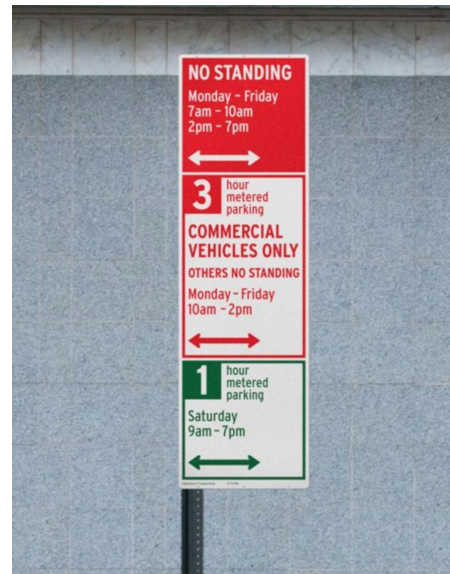
Traffic sign 2 (5 points):



Traffic sign 3 (5 points):



Traffic sign 5 (5 points):



Traffic sign 6 (5 points):



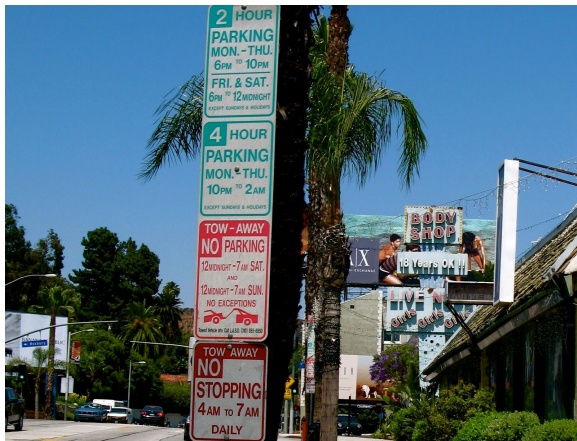
Traffic sign 4 (8 points):



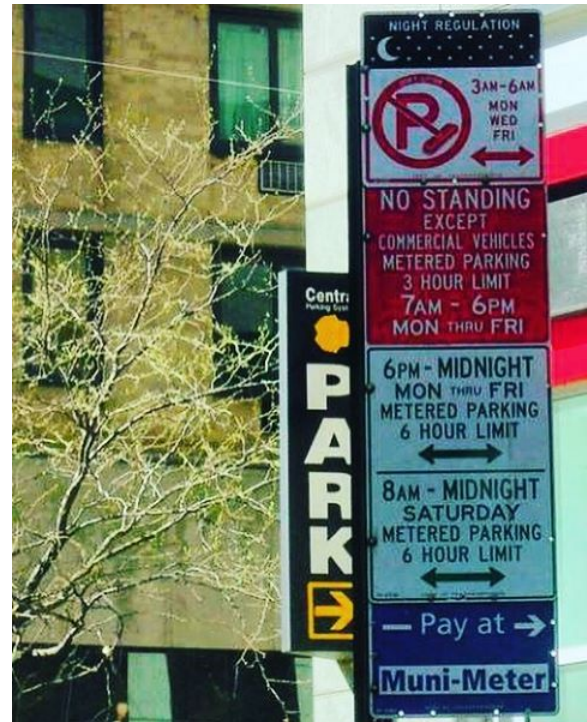
Traffic sign 7 (7 points):



Traffic sign 8 (10 points):



Traffic sign 10 (10 points):



Traffic sign 9 (10 points):

