In Class Exercises

1) What would be the decimal ASCII representation of "MONDAY"?

2) Say you are trying to recover some lost data from an old hard drive. Since all other tools failed, you are reading the drive bit for bit. Ultimately you retrieve this binary sequence. You think that this should represent a string and you know that your system uses ASCII.

What does it say?

```
01001000 01001111 01010111 01000100 01011001
```

3) Consider this code and the image on the screen. How would you expect the image to change after this code completes?

```java
for(y=0;y<theUnion.height;y++){
    for(x=0;x<theUnion.width;x++){
        thisPixel = theUnion.getRGB(x,y);
        thisPixel.r=0;
        thisPixel.g=0;
        thisPixel.b=0;
        theUnion.setRGB(x,y,thisPixel);
    }
}
```
Take a look at this monochrome image. Each pixel is either all black or all white:

4) In Computer Vision we often need to find particular shapes in an image – like wheels on a car, for example. In this very simple example we are only looking for black pixels. Write a program that will look at every pixel in the image. If it is a white pixel, nothing should happen. If it is a black pixel, you should display an alert with the pixel's coordinates!