

4. For the following snippets of code, write what would be printed to the terminal. If an error would occur, write **error**. If nothing is printed, write **nothing**.

(a)

```
s = "0123456789"
for index in range(0, len(s), 2):
    print(s[index])
```

(b)

```
x = 7
y = x

print(not(x > y and y < x))
```

(c)

```
s = "Scotty Smith"

while(s[0] != " "):
    s = s[1:]

s[0] = "_"

print(s)
```

(d)

```
go_on = True
x = 52

while go_on:

    go_on = x % 2 == 0
    x = x // 2

print(x)
```

5. What is the decimal value of the binary number 01001101?

6. What is the binary equivalent of the decimal number 27?