

```
# EE 381 fall 2018 Project 3
```

```
# Dong Jae Shin
```

```
# 014579836
```

```
# start date 9-19-18
```

```
# Finish date 9-19-18
```

```
#-----
```

```
import random
```

```
# Enter spec.'s
```

```
p = float(input("Enter the probability of going from 0 to 1. "))
```

```
q = float(input("Enter the probability of going from 1 to 0. "))
```

```
S = random.randint(0,1) # S is assigned either 0 or 1
```

```
print(S, end = "") # print original location
```

```
for i in range(24):
```

```
    r = random.uniform(0,1) # r is a random decimal number between 0 and 1
```

```
    # Markov Model
```

```
    if S == 0 and r < p:
```

```
        S = 1
```

```
    elif S == 1 and r < q:
```

```
        S = 0
```

```
    print(S, end = "") # print steps
```

outputs

EE 381 fall 2018 Project 3

Dong Jae Shin

014579836

start date 9-19-18

Finish date 9-19-18

#-----

import random

Enter spec.'s

p = float(input("Enter the probability of going from 0 to 1. "))

q = float(input("Enter the probability of going from 1 to 0. "))

S = random.randint(0,1) # S is assigned either 0 or 1

print(S, end = "") # print original location

for i in range(24):

 r = random.uniform(0,1) # r is a random decimal number between 0 and 1

 # Markov Model

 if S == 0 and r < p:

 S = 1

 elif S == 1 and r < q:

 S = 0

```
print(S, end = "") # print steps
```