

```
import time
```

```
class SmartDialer:
```

```
    def __init__(self, phone_numbers,  
names, addresses):
```

```
        self.phone_numbers =  
phone_numbers
```

```
        self.names = names
```

```
        self.addresses = addresses
```

```
        self.disposed_calls = {
```

```
            'interested': [],
```

```
            'not_interested': [],
```

```
            'sale_made': [],
```

```
            'wrong_number': [],
```

```
            'not_available': []
```

```
        }
```

```
        self.do_not_call_list = []
```

```
    def dial_number(self, number_idx):
```

```
        # check if number is in do not call  
list
```

```
        if
```

```
self.phone_numbers[number_idx] in  
self.do_not_call_list:
```

```
        return False
```

```
        # simulate dialing and talking to  
the customer
```

```
        time.sleep(2)
```

```
        print("Talking to customer: ",  
self.names[number_idx], " at ",  
self.phone_numbers[number_idx])
```

```
        # prompt user for disposal  
decision
```

```
        dispose_decision = input("What  
would you like to do with this call?  
(interested, not interested, sale made,  
wrong number, not available, do not  
call): ")
```

```
        while dispose_decision not in
```

```

['interested', 'not_interested',
'sale_made', 'wrong_number',
'not_available', 'do not call']:
    dispose_decision =
input("Invalid input. Please enter one
of the following options: interested,
not interested, sale made, wrong
number, not available, do not call: ")

    # add call to appropriate disposal
list

self.disposed_calls[dispose_decision].
append((self.names[number_idx],
self.addresses[number_idx],
self.phone_numbers[number_idx]))

    # add number to do not call list if
applicable
    if dispose_decision == 'do not
call':

self.do_not_call_list.append(self.phon
e_numbers[number_idx])

    return True

def run_dialer(self):
    for i in
range(len(self.phone_numbers)):
        print("Dialing number ", i+1, "
of ", len(self.phone_numbers))
        if not self.dial_number(i):
            print("Number in do not call
list. Skipping to next number.")
            print("-----")

    def display_disposed_calls(self):
        print("Interested: ")
        for call in
self.disposed_calls['interested']:

```

```

        print(call)
    print("-----")

    print("Not interested: ")
    for call in
self.disposed_calls['not_interested']:
        print(call)
    print("-----")

    print("Sale made: ")
    for call in
self.disposed_calls['sale_made']:
        print(call)
    print("-----")

    print("Wrong number: ")
    for call in
self.disposed_calls['wrong_number']:
        print(call)
    print("-----")

    print("Not available: ")
    for call in
self.disposed_calls['not_available']:
        print(call)
    print("-----")

    print("Do not call list: ")
    print(self.do_not_call_list)

```

```

# Example usage
phone_numbers = ["555-1234",
"555-5678", "555-9012"]
names = ["John Smith", "Jane Doe",
"Bob Johnson"]
addresses = ["123 Main St", "456 Oak
Ave", "789 Elm St"]
sd = SmartDialer(phone_numbers,
names, addresses)
sd.run_dialer()
sd.display_disposed_calls()

```