```
0.000
 1
 2
     CS241 Checkpoint B6
 3
     Written by Chad Macbeth
 4
 5
 6
     ### Represents a phone
 7
     class Phone:
 8
 9
         ### Initialize a phone object
10
         def __init__(self):
11
             self.area_code = 0
12
             self.prefix = 0
13
             self.suffix = 0
14
15
         ### Get the phone number from the user
16
         def prompt_number(self):
17
             self.area_code = int(input("Area Code: "))
             self.prefix = int(input("Prefix: "))
18
19
             self.suffix = int(input("Suffix: "))
20
21
         ### Display the phone number
22
         def display(self):
23
             print("Phone info:")
             print("({}){}-{}" .format(self.area_code, self.prefix, self.suffix))
24
25
26
     ### SmartPhone is a type of PHone. SmartPhone IS-A Phone with additional information
27
     ### such as email.
28
     class SmartPhone(Phone):
29
30
         ### Initialize a smart phone object
31
         def __init__(self):
32
             super().__init__() # Initialize base class components first!
             self.email = ""
33
34
35
         ### Get the smart phone information from the user
36
         def prompt(self):
37
             self.prompt_number()
                                           # Reuse! This prompt function can call
38
                                           # the prompt_number function from the base class.
39
                                           # We can say "self" because all the functions in
                                           the base
40
                                           # class are part of the subclass now.
41
             self.email = input("Email: ")
42
43
         ### Display the smart phone information
44
         def display(self):
45
             super().display()
                                           # We can't say self.display here because there are
             2 display
46
                                           # functions now. This is okay, but we need to
                                           tell python
47
                                           # which one we want.
48
             print(self.email)
49
     ### Test the classes above
50
51
     def main():
52
         phone = Phone()
53
         print("Phone:")
54
         phone.prompt_number()
55
         print()
56
         phone.display()
57
         print()
58
         print("Smart phone:")
59
         smart = SmartPhone()
60
61
         smart.prompt()
62
         print()
63
         smart.display()
```

```
64
65 if __name__ == "__main__":
66 main()
67
```