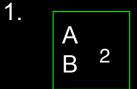
COMP 110

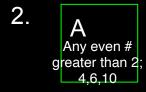
CL02 - Memory Diagrams + Conditionals Practice

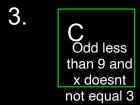
Conditionals Practice

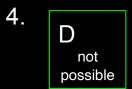
```
x: int =
    y: int = 9
 3
    if x % 2 == 0:
        print("A")
 5
 6
        if x == 2:
            print("B")
   else:
        if x < y:
            print("C")
10
    if x ** 2 == y:
11
        print("D")
12
```

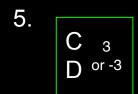
Choose a value of x (if possible) to give the following outputs:

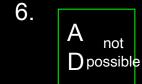










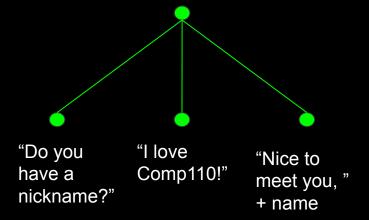


```
name: str = input("Name? ")
       (length)
  if len(name) > 6:
        print("Do you have a nickname?")
                                                         Length > 6:
   else:
                                                              "Do you
6
        if name == "Alyssa":
                                                              have a
            print("I love Comp110!")
                                                              nickname?"
8
        else:
            print("Nice to meet you, " + name)
                                                                              Name not
                                                              Name = Alyssa:
                                                                              = Alyssa:
                                                                    "I love
                                                                                 "Nice to
                                                                    Comp110!"
                                                                                 meet you, "
                                                                                 + name
```

```
name: str = input("Name? ")
  if len(name) > 6:
       print("Do you have a nickname?")
5 else
                                   elif
      if name == "Alyssa":
          print("I love Comp110!")
8
      else:
           print("Nice to meet you, " + name)
```

```
name: str = input("Name? ")
  if len(name) > 6:
       print("Do you have a nickname?")
5 else:
                                   elif
      if name == "Alyssa":
           print("I love Comp110!")
8
      else:
           print("Nice to meet you, " + name)
```

```
name: str = input("Name? ")
  if len(name) > 6:
      print("Do you have a nickname?")
 else
                                   elif
6
      if name == "Alyssa":
          print("I love Comp110!")
8
      else:
           print("Nice to meet you, " + name)
```



```
3 	ext{ if len(name)} > 6:
                                                  if len(name) > 6:
       print("Do you have a nickname?")
                                                       print("Do you have a nickname?")
                                               4
  else:
                                      Key word to
                                                  elif name == "Alyssa":
                                       unindent
6
      if name == "Alyssa":
                                      everything
                                                       print("I love Comp110!")
          print("I love Comp110!")
                                                  else:
8
      else:
          print("Nice to meet you, " + name) 8
                                                       print("Nice to meet you, " + name)
```

name: str = input("Name? ")

name: str = input("Name? ")

Memory Diagram

```
1 a: int = 2
                           Stack
  b: int = 6
                                                    Output
                           Globals
  if a > b:
                             C
        print(a-b)
                                                      "3.0"
  elif b < 10:
6
        print(b/a)
                            if elif is
   else:
                                                When you divide
                           true dont
        print(a+b)
8
                                               you get a float and
                            print out
                                                print the number
                             else
   print(b)
                                                 back with a .0
```

Memory Diagram

```
1 x: str = "Hello"
                           Stack
2 y: int = len(x)
                                                   Output
                            Globals
                                 "Hello"
  y -= 6 5 x 2= 10
10 -6= 4
   print(y)
                                                        4th letter is O
   print(x[y])
           Hello
          01234
```