**Problem-Solving Session Rules**

* Each team member must contribute to answering all the questions from the problem-session. You may lose up to 20% of your lab grade if you don't contribute.
* If a question requires you to write code, work with your teammates to write the code in this document (do not use PyCharm nor any IDE).
* Before leaving the meeting, make sure you download this document with your answers.

You will probably need it later for the lab implementation.

* Check with your SLI or instructor your answers before leaving the meeting.

Do not forget to enter your name in the team members section.

**Team Members**

**Bhavin Oza  
 Kushal Kale  
 Vedika Painjane**

1. **draw\_outline()**

**draw\_center\_dot()  
  
 2. def draw\_two\_dots():**

**turtle.left(45)**

**DIAGONAL = math.sqrt(SIDE\*\*2 + SIDE\*\*2)**

**turtle.forward( DIAGONAL /3)**

**turtle.down()**

**turtle.dot(2)**

**turtle.up()**

**turtle.forward( DIAGONAL / 3)**

**turtle.down()**

**turtle.dot(2)**

**turtle.up()**

**turtle.right(180)**

**turtle.forward(2\* DIAGONAL /3)**

**turtle.left(135)**

3. draw\_outline()

draw\_two\_dots()

turtle.left(90)

turtle.forward(SIDE)

turtle.left(180)

draw\_two\_dots()

turtle.forward(SIDE)  
 turtle.left(90)

4. def draw\_die(pips):

assert (0 < pips < 6), "Illegal #pips: " + str( pips)

draw\_outline()

If pips == 1:

draw\_center\_dots()

elif pips == 2:

draw\_two\_dots()

elif pips == 3:

draw\_center\_dots()

draw\_two\_dots()  
 elif pips == 4:

draw\_four()

else:

draw\_center\_dots()

draw\_four()

def draw\_four():

draw\_two\_dots()

turtle.left(90)

turtle.forward(SIDE)

turtle.left(180)

draw\_two\_dots()

turtle.forward(SIDE)  
 turtle.left(90)

5. def draw\_outline():

turtle.down()

for \_ in range(0,4):

turtle.forward(SIDE)

turtle.left(90)

turtle.up()  
  
6. def draw\_center\_dots():

turtle.forward(SIDE / 2)

turtle.left(90)

turtle.forward(SIDE / 2)

turtle.down()

turtle.dot(2)

turtle.up()

turtle.back(SIDE / 2)

turtle.left(90)

turtle.forward(SIDE / 2)  
 turtle.right(180)