The Task

The user wants to output the results of 6 rolls of a dice.

The result should be stored in a txt file called Dice Roll.txt.

Dice Rolls.txt

1
3
4
5
3
6

Writing your Thinking

Take 5 minutes to think about how you tackled this problem.

- **Did you use pen and paper to help visualise possible solutions?**
- Did you break it down to a smaller problem such as a simulating the roll of a dice first?
- **Did you test your program to ensure the output to the txt file operated correctly?**
- Did you make several attempts at refining your User Interface?

Using Think-Pair-Share-Square (TPSS), go through how you and your partner were thinking about how to solve the problem.

Pseudo-Code

#Initialisation

Open the txt file in append mode;

#simulate the roll of the dice and inform the user

Outcome_of_Dice_Roll = a random number between 1 and 6;

Inform the user the dice is about to be rolled;

Delay 2 seconds;

#report to the user and store the results

Output the result to the user;

Send Outcome_of_Dice_Roll to the file;

Close the txt file

The reverse program and the mean

Write a program which reads the **Dice Rolls.txt** file and outputs the results to the user?

Calculate the mean of the results of the 6 rolls.

What would you expect the mean to be?

What about the mean of 60 rolls of a dice?