**Model 1:- Tetris**

**Explanation:-**

I have selected Tetris model, which is basically a Game Model. Well I love games a lot that’s why I selected this model. Secondly I have played this game a lot in my childhood in so-called Nokia Phones. This is very simple puzzle game. The game involves falling composed of four blocks in different configuration. It basically works like this, when the row is completed it gets disappeared. The more rows you clear, the more points you get. Moreover, there are seven type of pieces. These are all made of four blocks. Also, when you use the buttons like left, right, drop, down and so on, these help you to organize your rows and slower and faster your speed. Well, these are the things that I noticed in Tetris. Now the thing that I tried is to beat my highest score. My highest score was 788, which was in my childhood. Luckily I did broke that record and made 819 as my new highest score, this all happened because of my dedication towards the game.

**Model 2:- Continental Divide**

**Explanation:-**

The Second model that I picked is Continental Divide. It diverted my attention toward itself, as it’s the current fact that’s happening in the world right now. The model is instated with a height map. At that point the two seas deliberately rise, little by little. The two floods run towards one another over the mainland and in the long run crash. The mainland partition is absolutely where the two floods impact. It’s all about the increasing area of water towards the land. The tings that I notice that was the floods move at different rates. Also, it takes time for last 100 meters to cover land compared to first 100 meters. For in between land consumption is faster than all. Moreover, the things that I tried was to fluctuate the speed slider to observe the difference. I observed that faster the speed higher the evaluation and lower the speed slower the evaluation. Also I tried to increase the pitch size to get a better view.

**Model 3:- Birthdays**

**Explanation:-**

The last model that I have selected is Birthdays. I found it quite interesting that’s why I picked this one. Basically there is a room of 23 people with their respective birthdates. It reflects a green arrow on two of them who have same birthdates. Well, to use this model first you need to press SETUP to initialize the model, then you press GO ONCE for only one time or press Go to generate random dates again and again. It also shows the success rate, which is a good feature. Also, I tried to extend this model, by adding the leap year as the model didn’t had the capability to take leap year into accounts. But I added that later on. Now you can also see February 29th as a birthdate in the attached photo. Basically I changed the code little-bit, by adding a function for the leap year and also the success rate for that. Also I made some changes in my code, so that the success rate tries to reach near 90%.

