## MSMS - 105

## Ananda Biswas

## Assignment 02

- **Objective**: To design and develop an animated plot that visually represents the progress of loading.
- **②** *Idea*: We try to animate a ball falling from top and it gets bigger as it falls. The balls get stacked in 10 layers each with 10 balls representing a total of 100 percent. **RED**, **YELLOW**, **CYAN**, **BLUE**, **GREEN** layers respectively denote **20**, **40**, **60**, **80**, **100** percentage of total loading done.
  - **④** *Implementation* :

```
pause <- function(seconds) {
  start <- Sys.time()
  while((Sys.time() - start) < seconds) {}
}</pre>
```

```
ball_colors <- rep(c("#DB4437", "#F4B400", "#08e2f0", "#4285F4", "#0F9D58"), rep(2, 5))
```

```
for (t in 1:10) {
  pop <- 1:10

  for(k in 1:10){

    if(k < 10){
      num <- sample(pop, 1)
    } else{
      num <- pop[1]
    }
}</pre>
```

## **⊙** Stages of the Animation:

