```
//class 22 - 23: Physics Engine
//Developer: Zaara
//Declare variables for game objects and behaviour indicators(FLAGS)
//constants
const Engine = Matter.Engine; //Universe
const World = Matter.World; //Planet Earth
const Bodies = Matter.Bodies; //Non-living and Living Bodies
//simulation of Engine and World to be used by developer
var userEngine, userWorld;
//creation of Bodies
var ground, ball;
var cube1, cube2;
//Create Media library and load to use it during the course of the software
//executed only once at the start of the program
function preload() {
}
//define the intial environment of the software(before it is used)
//by defining the declared variables with default values
//executed only once at the start of the program
function setup() {
 createCanvas(850,600);
 //creation of simulation: Engine and World
 userEngine = Engine.create();
 userWorld = userEngine.world;
 //creation of ground using matter.js
 var ground_options = {
   isStatic: true
 }
 ground = Bodies.rectangle(400, 550, 750, 30, ground_options);
 World.add(userWorld, ground);
 console.log(ground);
```

```
//creation of ball using matter.js
 var ball_options = {
  restitution: 1.0
 }
 ball = Bodies.circle(300, 300, 30, ball_options);
 World.add(userWorld, ball);
 console.log(ball);
}
//All changes, conditions, manipulations, actions to be executed and checked
continously or applied throughout the program are written inside function
draw.
//function draw is executed for every frame created since the start of the
program.
function draw() {
 background(0);
 //activation of simulated Engine
 Engine.update(userEngine);
 //display of ground using matter.js
 rectMode(CENTER);
 fill("brown");
 rect(ground.position.x, ground.position.y, 750, 30);
 //display of ball using matter.js
 ellipseMode(CENTER);
 fill("lightgreen");
 ellipse(ball.position.x, ball.position.y, 60, 60);
 //simple rectangle shape
 rectMode(CENTER);
 fill("lightblue");
 rect(670, 200, 50, 50);
}
```