

## A: Tools needed to assemble a pc:

- 1- Screwdrivers: used to remove and put screws in the computer case.



- 2- Twist ties: used to for cable management, keeping dust accumulation low and airflow high as well as making the case look nice.



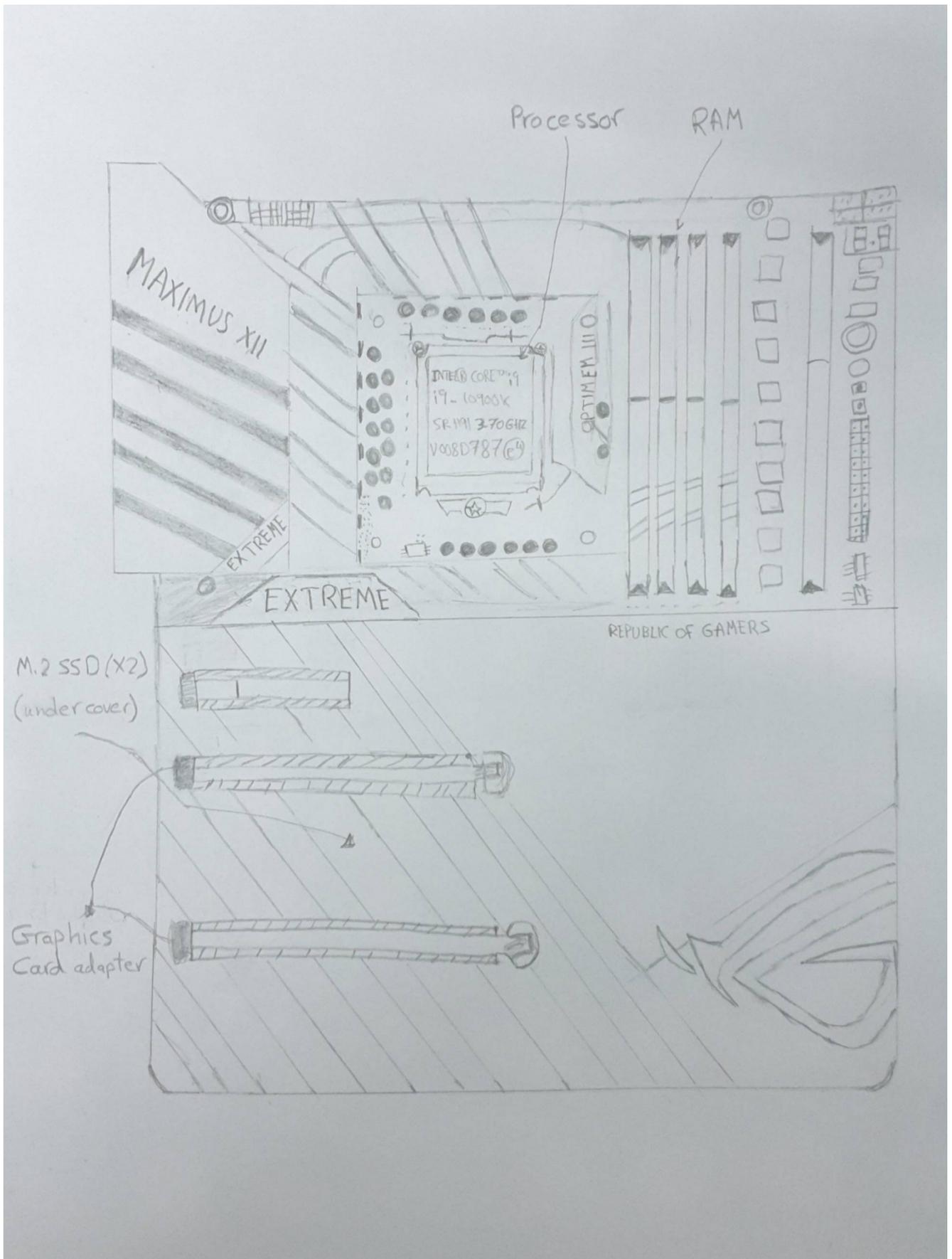
- 3- Pliers: used to remove stripped screws (probably cheap screws) also it can work as a wire cutter.



- 4- Anti-Static Kit: It is used for safety and precautions, It protects the equipment from static damage as well as protecting the table surface from scratches.



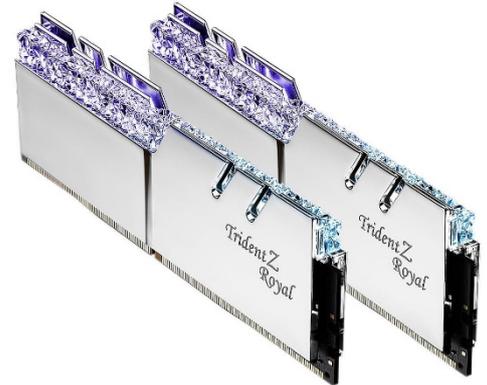
# Part B: Sketch of motherboard layout



## Part C: “Step by Step PC assembly”

### Step 1:

Choose the motherboard (main board) \ we choose the ASUS ROG XII M12E



Step 2: Next, we start to attach the main stuff on it.

#### 1- CPU

- a. We choose the intel 10<sup>TH</sup> GEN CORE i9 10900k

#### 2- Memory

- a. Trident Z Royal DDR4 3600 16G \* 4

#### 3- Hard disk

- a. Samsung SSD 970 EVO plus

#### 4- And last the base of the cooler only (not all the cooler)



### step 3:

we choose the case that will fit all the components and allows the user to upgrade later \ we choose the ASUS GX601



#### 1- Now we screw the motherboard to the case

#### 2- Now we add the fans and the cooler \ ASUS ROG RYUJIN 360

#### 3- We get the power supply \ ASUS ROG 1200W

- a. We attach all the needed cables in it and add it to the case
- b. And screw it to the case



4- At last, we add the GPU \ ASUS STRIX RTX 2080 Ti-011G



5- We close the lid carefully.

6- We connect peripheral devices such as keyboard, mouse, headphones / speakers and internet cable.

7- We connect the monitor and plug the PC into the power source and run it.