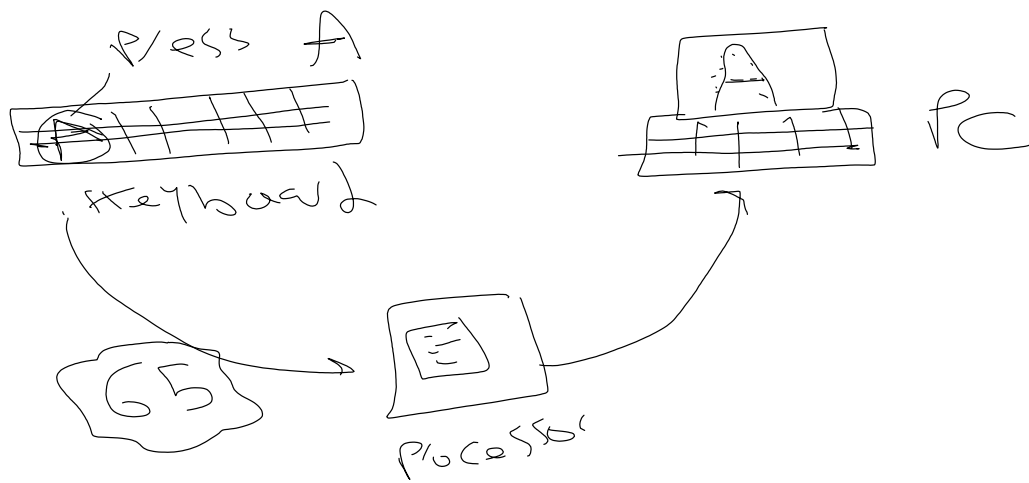


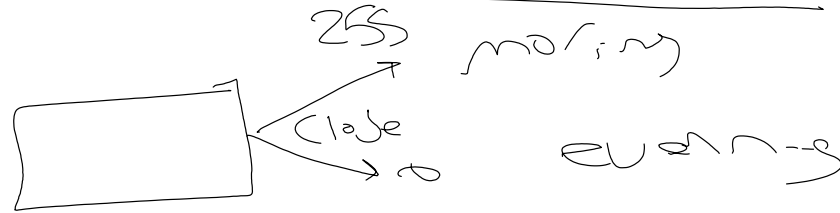
$int = bytes \times 8bits$

$4bytes$

$4 \times 8 = 32$

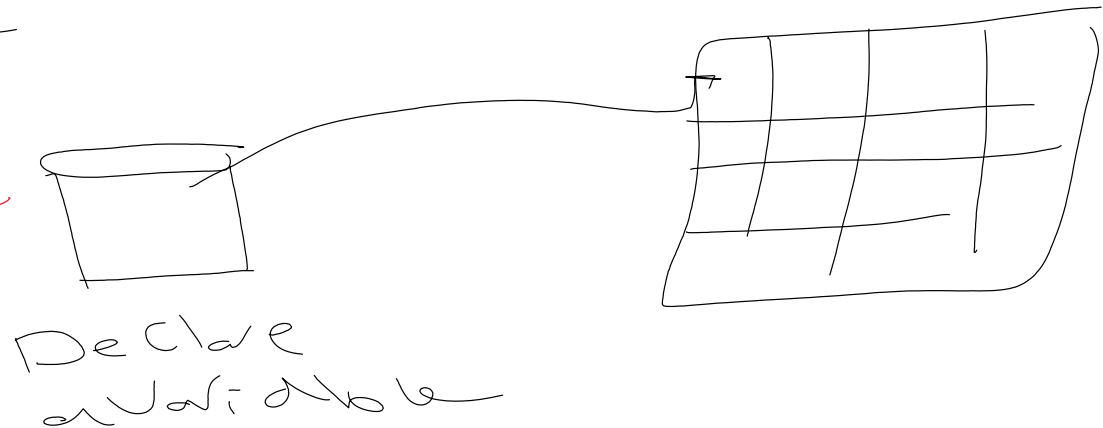


Comparison

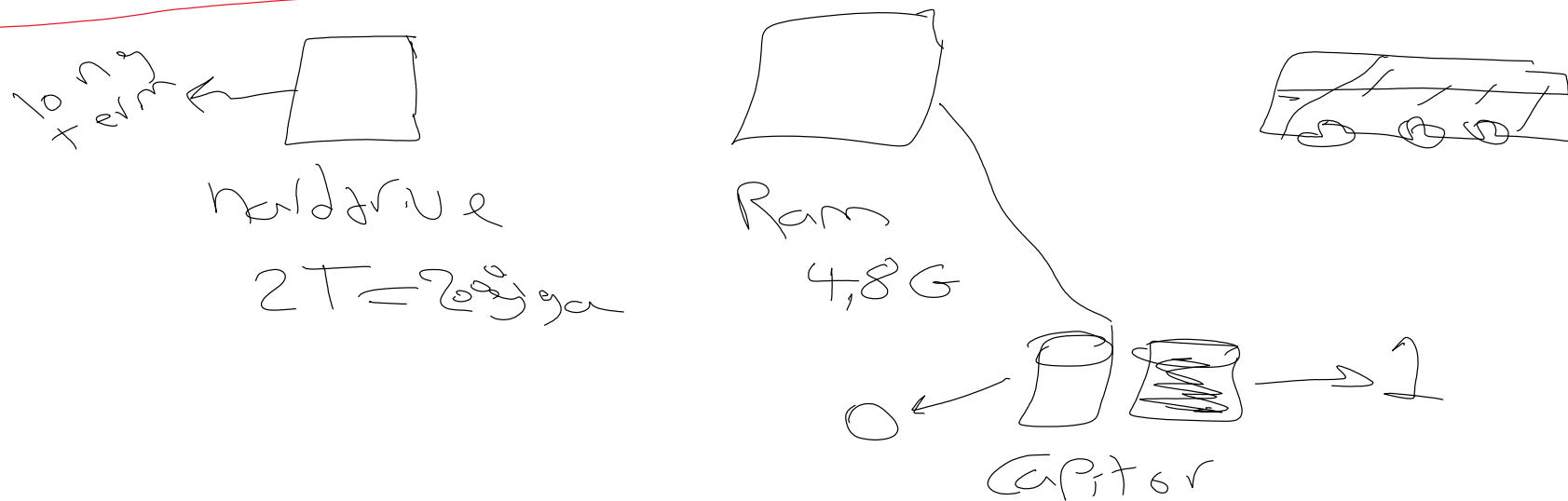
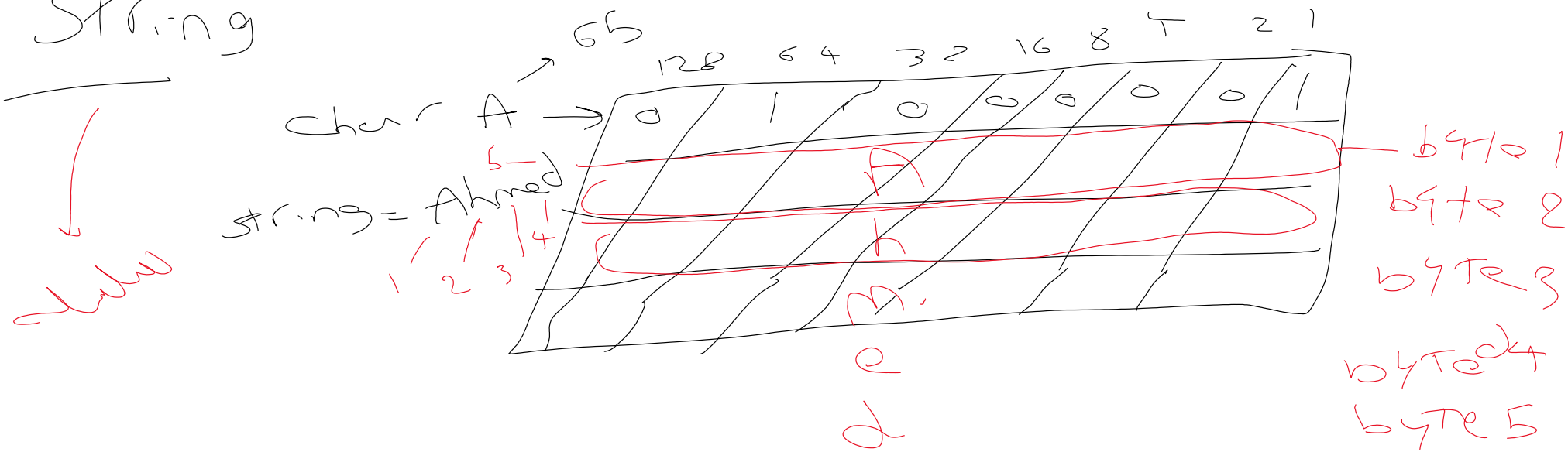


Garbage Value

The memory
Assign
value
to you.



String



* Computer can do two things: Speed & Distance Time

① Do ARThimTic oPe/ation(calculations) [✓]

② Store data (✓)

Mathematics Procedure

① ()
② ~~×~~ /
③ + -

```
#include <iostream>
#include<string.h>
using namespace std;

int main()
{
    short employee_one=3000;
    short employee_two=6000;
    short employee_three=9000;

    short sum=employee_one+employee_two+employee_three;
    short avg=sum/3;
    cout<<"The total salary:"<<sum<<endl;
    cout<<"The avg salary:"<<avg<<endl;
}
```

```
main.cpp x
1  #include <iostream>
2  #include<string.h>
3  using namespace std;
4
5  int main()
6  {
7      short item=14;
8
9      short item_l4perecent=item+item*0.14;
10
11      cout<<item_l4perecent;
12
13  }
14
```

```

1 #include <iostream>
2 #include <ctype>
3 using namespace std;
4
5 int main()
6 {
7     char character='a';
8     cout<<char(toupper(character));
9
10 }
11

```

```

#include <iostream>
using namespace std;

int main()
{
    char character='a';
    cout<<char(character-32)<<endl;

    char character='a';
    cout<<char(character-32)<<endl;
}

```

```

/*
This app built for giving you your real age
Mohamed Essam Omar
www.96.essam@gmail.com
*/

#include <iostream>
using namespace std;

int main()
{
    int birthdate;
    //Here I ask the user for input
    cout<<"Enter your birthdate"<<endl;
    cin >> birthdate;
    cout<<"My age is:"<<2022-birthdate<<endl;
}

```

Pseudo Code = Algorithm in your lang...
 → Break the problem to sub problems

- EX:
- ① Create item variable. ✓
 - ② Ask the user to input item price. ✓
 - ③ Calculate the new price. ✓
 - ④ Print new price. ✓

