

Project 2:

During this project, we learned about memory and its several types of it.

We use Ram (Random accessible memory), as a memory that performs calculations in a very short time

Compared to flash memory which uses as storage.

After we reset our system, all the information in the RAM is wiped off, not like the flash memory which can store the data until we change it ourselves.

So the task was to take 2 arrays and multiply 2 correlated digits and store them in the memory.

There are two versions of this task. The first one was to store the data in the register, and we took the second one which is to store it in the memory.

We used a register to point to the address in the memory where we would like to store the data.

The function is described in the image below:

```
void func (int id1[],int id2[],int size,int* pnum){
    for(int i=0 ; i<size ; i++) *pnum += id1[i]*id2[i];
}

int main(){
    → int ID1={4,3,8,2,7,2,9,3},ID2={2,3,4,2,5,2,1,9},IDsize=8,num=0;
    → func (ID1,ID2,IDsize,&num); // IDsize=8, &num is the num address
}
```