MIPS Assembly

Lab 3

Dr. Houssein Alaeddine

Exercise 1

Write a program to perform the multiplication of two positive integers using the addition.

Example

7×3= 7+7+7	3×7= 7+7+7
------------	------------

Exercise 2

Write a program to convert a natural number (maximum 1023) into a binary number. The resulting binary number must be stored in an integer array.

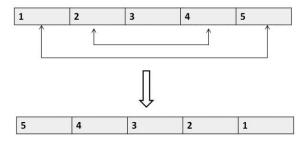
Example

Conversion (19) ->0000010011

Exercise 3

The following C-code reverses an array of 5 integers.

```
int T[]={1,2,3,4,5},i,j=4,temp;
for(i=0;i<2;i++)
{
         temp=T[i];
         T[i]=T[j];
         T[j]=temp;
         j--;
}
for(i=0;i<5;i++)
         printf("%d",T[i]);</pre>
```



- a. Write the corresponding code in MIPS language
- b. Generalize your code by allowing user to enter the number N \in [1, 50] and values of cases.