

# Computer Architecture CSE313/CSE 3313

Assignment 1

Section: C

#### Submitted to:

Anik Mazumder

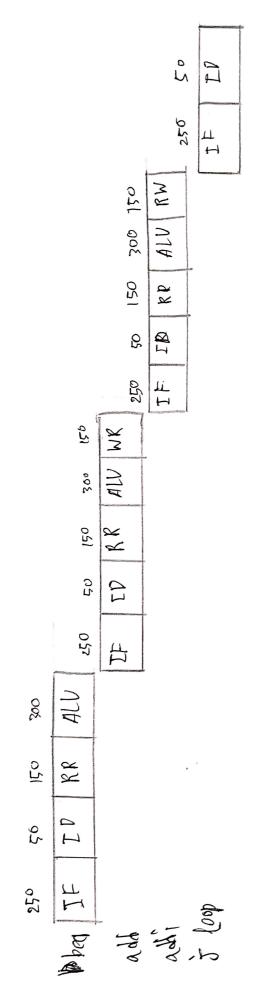
Lecturer

Department of CSE

#### Submitted by:

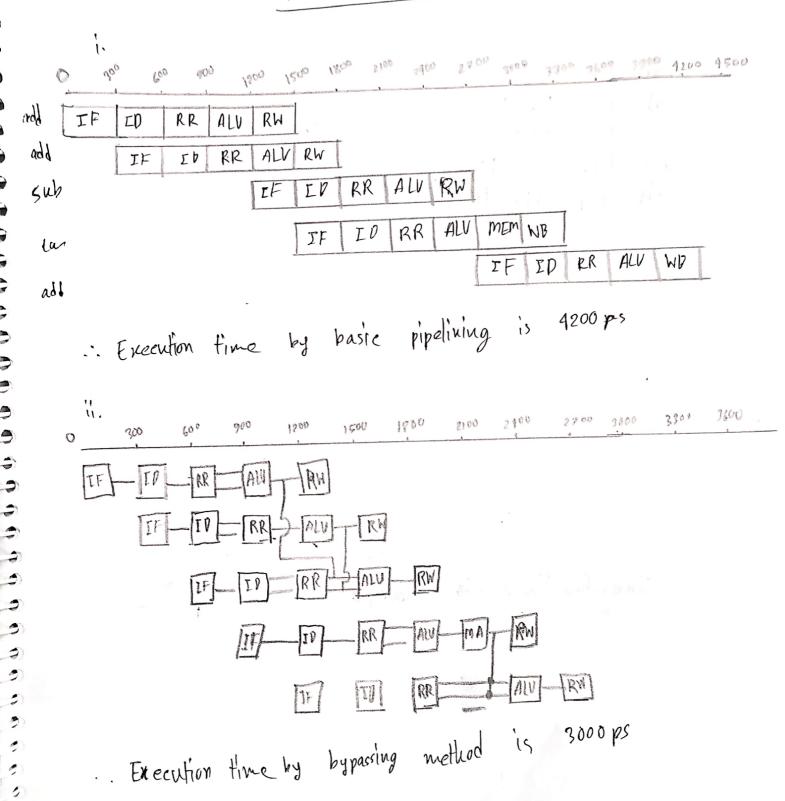
Mahin Mahmud

ID: 011 212 150



Total time taken for the code in singe cycle execution= time for beg tadd toddit i = 2850 ps

## 1 (b) No Answer



"ii. New code after using code scheduling Method

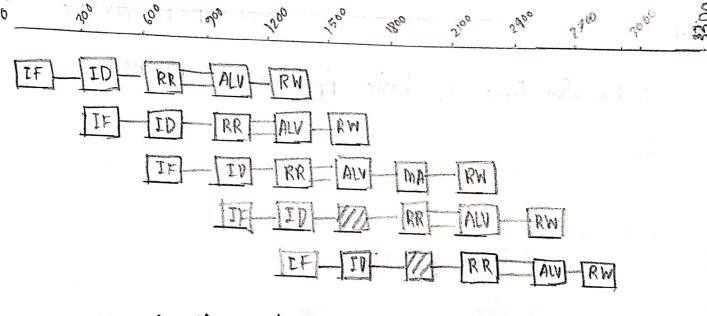
add \$50, \$51, \$52

add \$51, \$52, \$53

Lu \$t2, 20(\$t1)

tsub \$t0, \$52, \$53

add \$54, \$t2, \$t2



: Execution time is 3000 px

### 2 No. Answer

Number of blocks =  $64 = 2^6$  : n = 6Number of words per block =  $4 = 2^2$  : m = 2Size of address field = 32 bits

:. 
$$tag size = 32 - (n+m+2)$$
  
= 32 - (6+2+2)  
= 22 bits

10

for index = 5 = 000101

index no. 5 are

$$00000101 = 5$$
 $01000101 = 69$ 
 $10000101 = 133$ 
 $11000101 = 197$