

CSE 332L: Computer Organization and Architecture

Sec – 2, Faculty - TnF

Lab Instructor: Sheikh Shadab Towqir <u>Project: Summer 2018</u>

Design a 24-bit single cycle CPU that can perform R-type, I-type and J-type instructions. For each type of instruction format, the minimum set of operations that your design needs to perform are listed below.

R-type:

ADD

SUB

NAND

NOR

AND

OR

SLT

SLL

SRL

I-type:

LW

SW

BEQ

BNE

ADDI

SUBI

J-type:

J