Name: Monu (2020CS50432) Assignment: Stage4

1 Code running

datapath.vhd and combined.vhd are two files which contain codes. For running two files on eda playground:

- 1. Design.vhd=> combined.vhd
- 2. testbench.vhd=>datapath.vhd
- 3. Top entity=> controller Now run the codes

2 Instructions stored in Memory:

??

Code 1: Codes in component datamem

Corresponding Instructions: ??

```
mov r0,#4 <= X"E3A00004"

mov r1,#2 <= X"E3A00102"

mov r2,#2 <= X"E3A00202"

add r2,r2,#1<= X"E2811002"

add r3,r2,r1<= X"E0832001"

sub r4,r0,r1<= X"E0440001"
```

Code 2: Corresponding instructions to data stroed in memory

3 EPWave

Response of codes:



Fig 1: EPWave Result

References