

Assignment-2

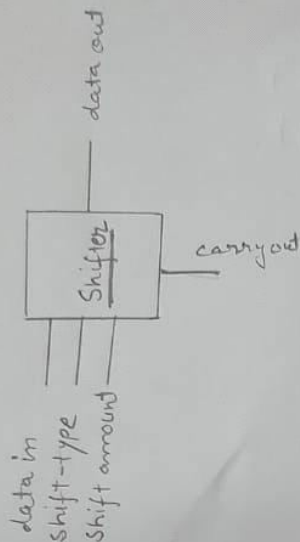
(Subtask-5)

Name=Monu

Entry No.= 2020CS50432

- Shifter folder has only circuit for shifter.
- Multicycle with shifting unit is in separate folder.

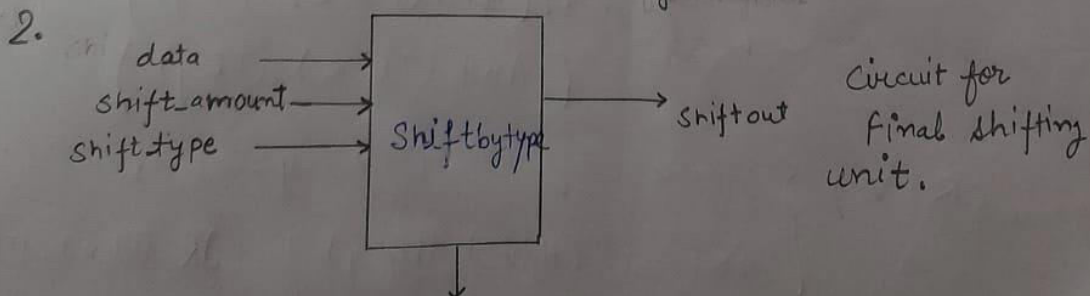
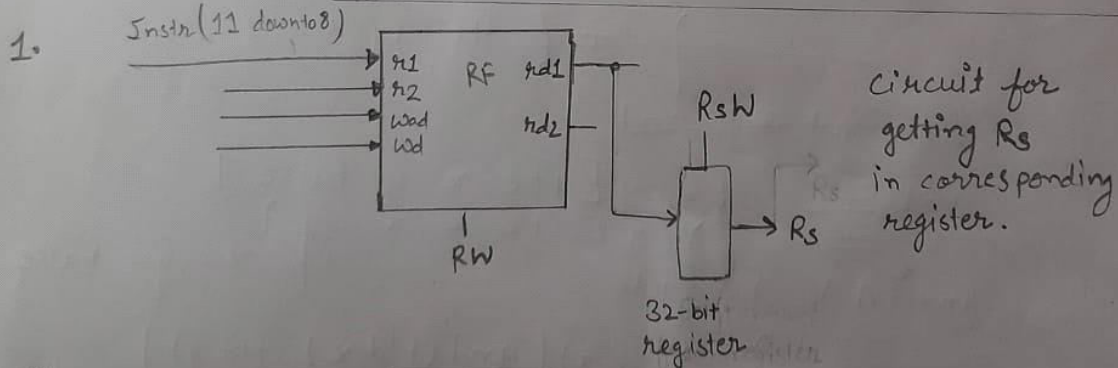
Blue logics for shift-type and shift amount:

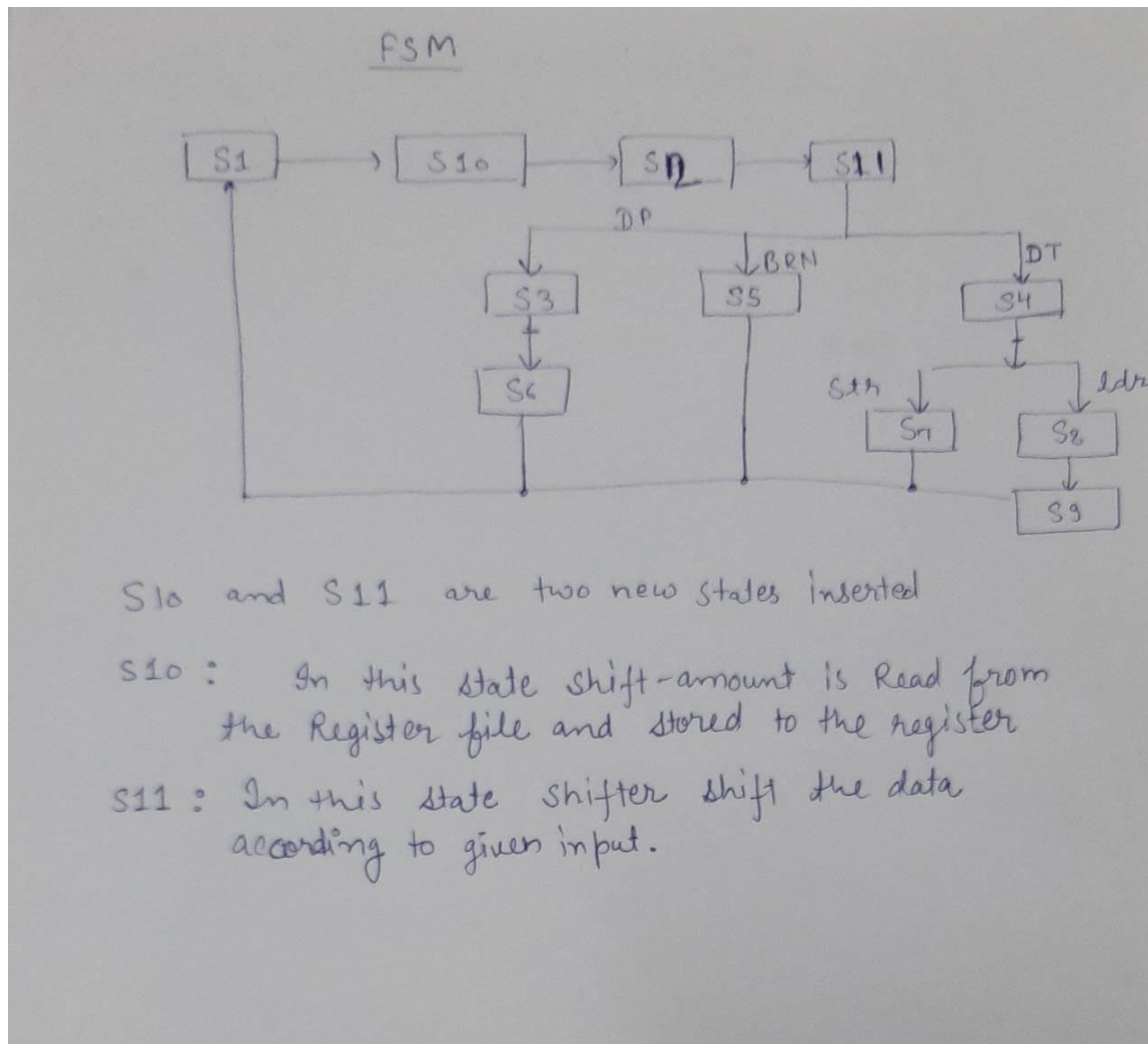


- shift-type \leftarrow
- ROR when (instrtype = DP and field = Imm),
 - Instr(6 downto 5) when (instrtype = DP or DT and field \neq Imm),
 - None otherwise

shift amount \leftarrow

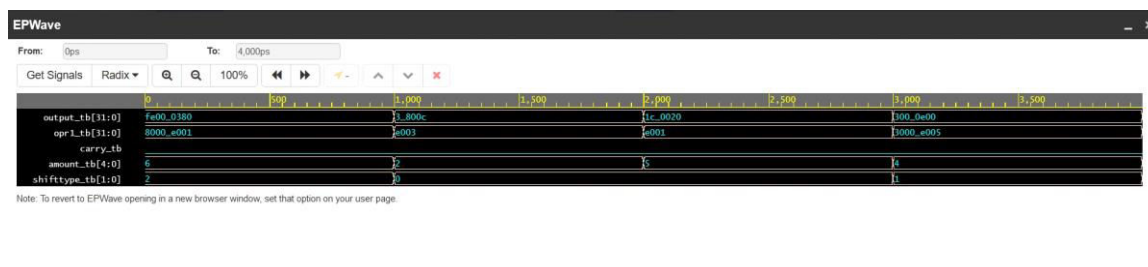
- Instr(11 downto 7) when (Instr(5) = '0' and field \neq Imm and Instr = DP or DT)
- RS[4 downto 0] when (Instr(5) = '1' and field \neq Imm and Instr = DP or DT)
- Instr(11 downto 8) when (field = Imm and Instr = DP)
- "00000" otherwise





EpWave Response:

1. For shifter



2. For circuit

