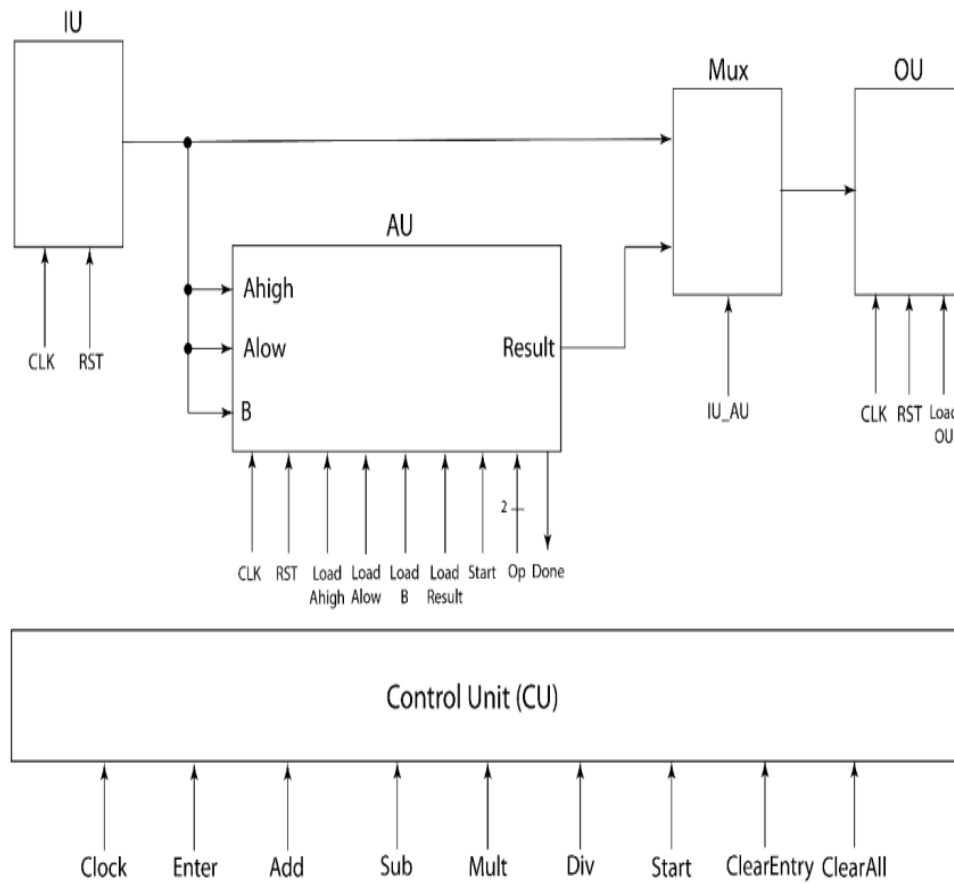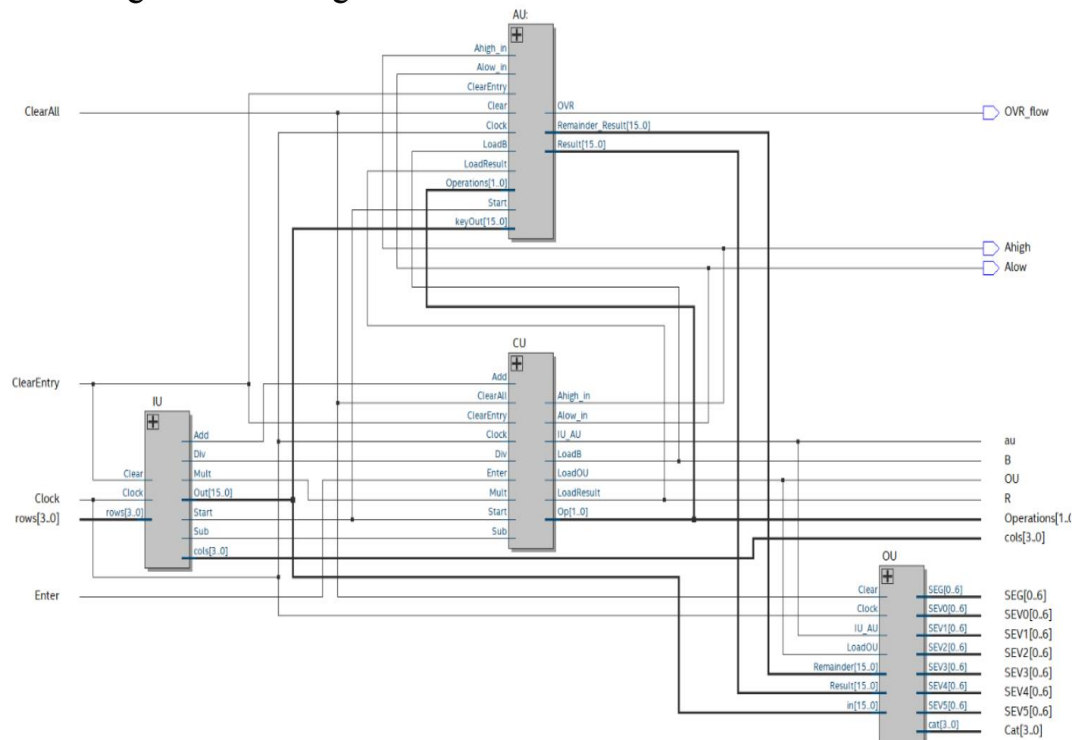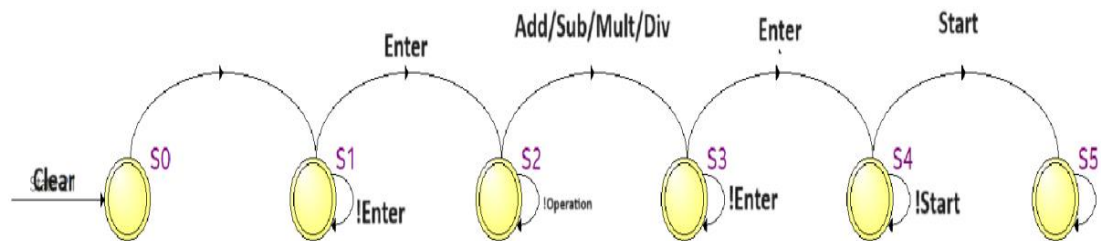## 1. Control Path, Data Path interface

2. Organization diagram

3. Control Unit – I/O and State diagrams

CU State diagram

4. Control Unit Control Flow

```
Enter Ahigh
     |
     v
Enter Alow
     |
     v
Enter Operation
     |
     v
Enter B
     |
     v
  Start


              Add_Sub?  --No-->  Done? --No-->
               /                   /
             Yes                  Yes
              |                    |
              v                    |
         Store Results <----------+
              |
              v
        Display Results
```