ME-543
Computational Fluid Dynamics

Assignment-3

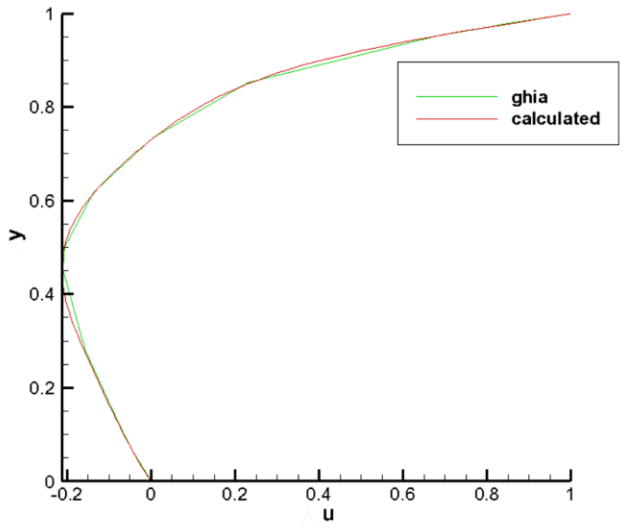
STREAM FUNCTION DISTRIBUTION USING C PROGRAMMING AND TECPLOT

BIPLOW KUMAR

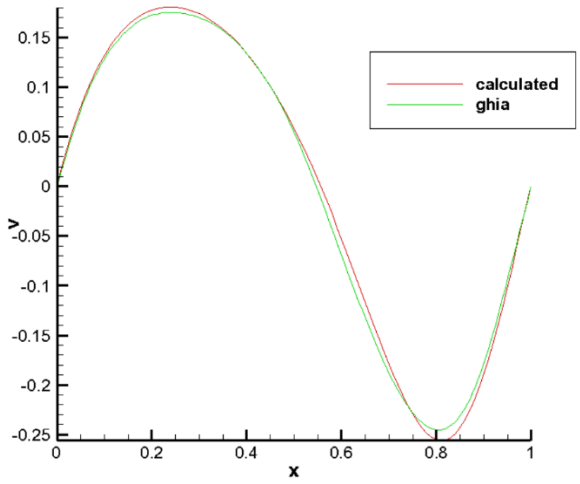
RollNo:224103331

Reynold's Number=100

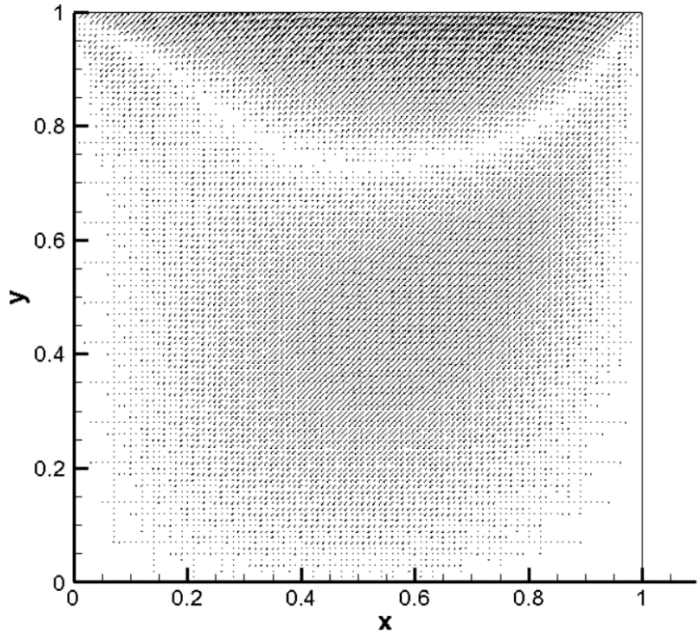
1. **Centre Line horizontal velocity(u_centerline):**



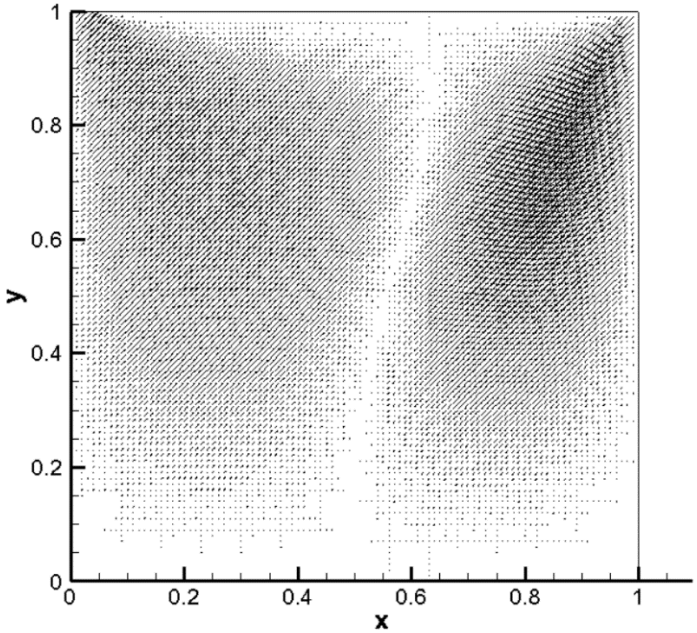
2. **Centre Line vertical velocity(v_centerline):**



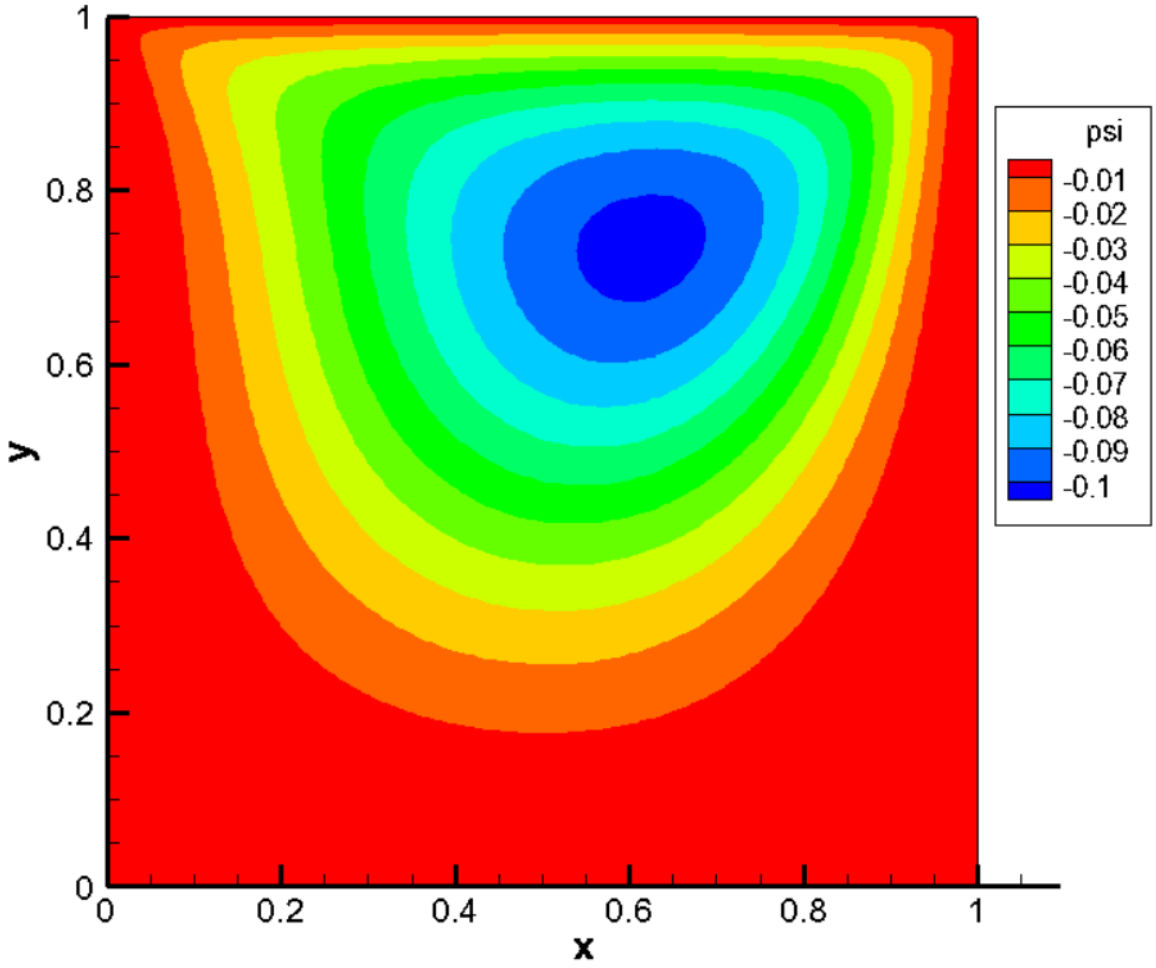
3. u_vector plot:



4. v_vector plot:

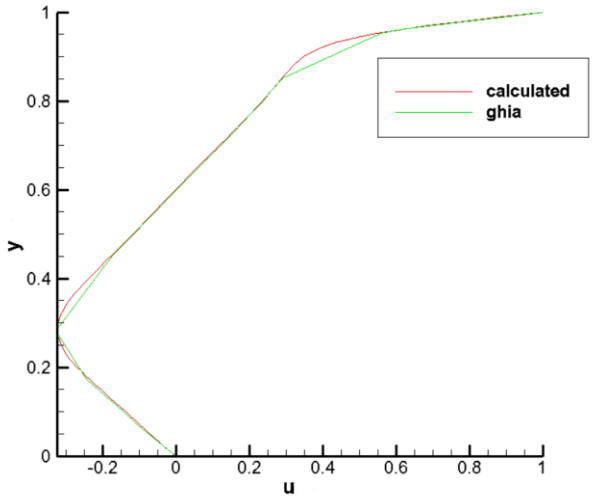


5. **Streamline Plot:**

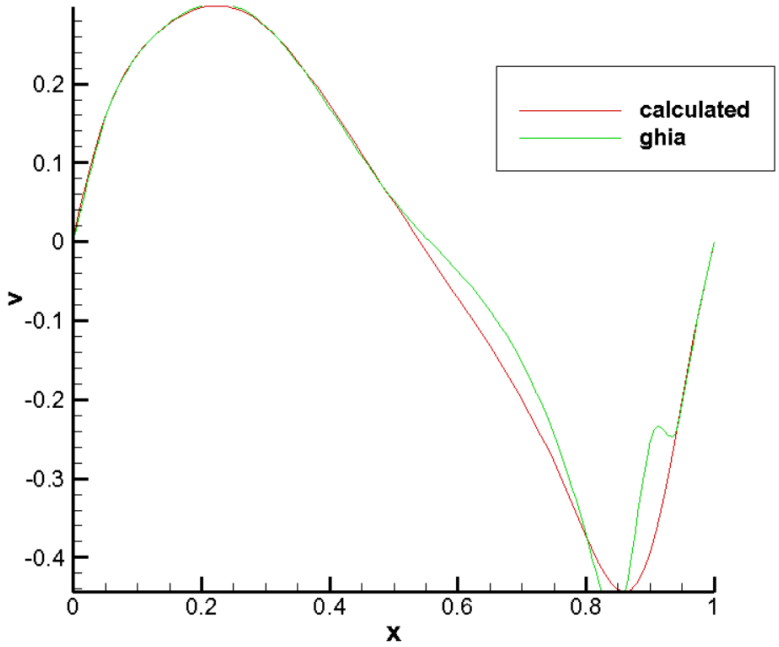


Reynold's Number =400

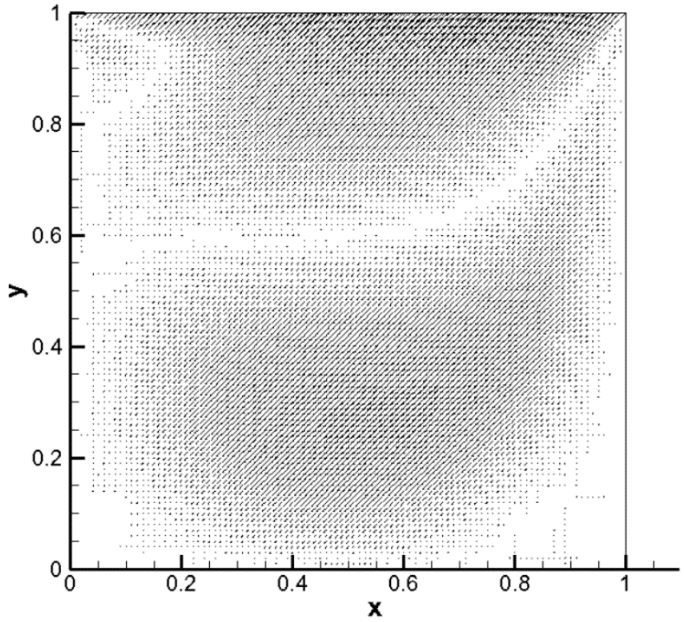
1. **Centre Line horizontal velocity(u_centerline):**



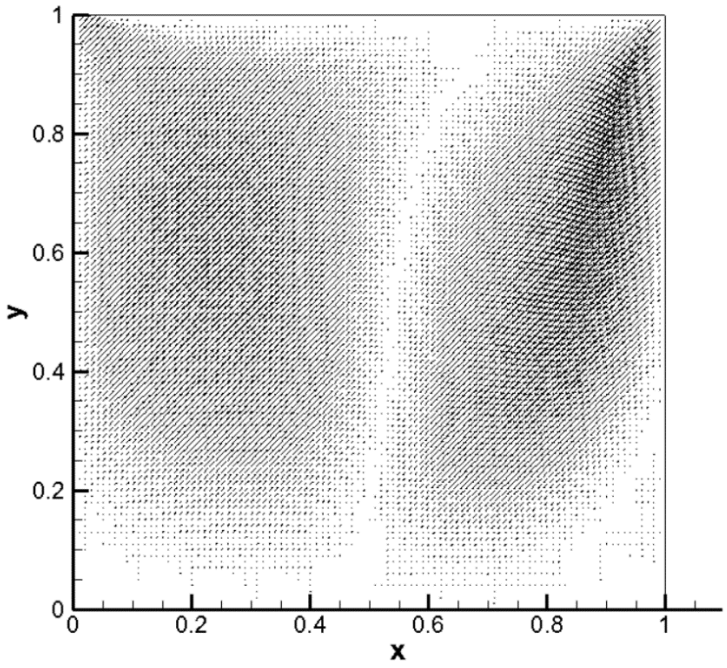
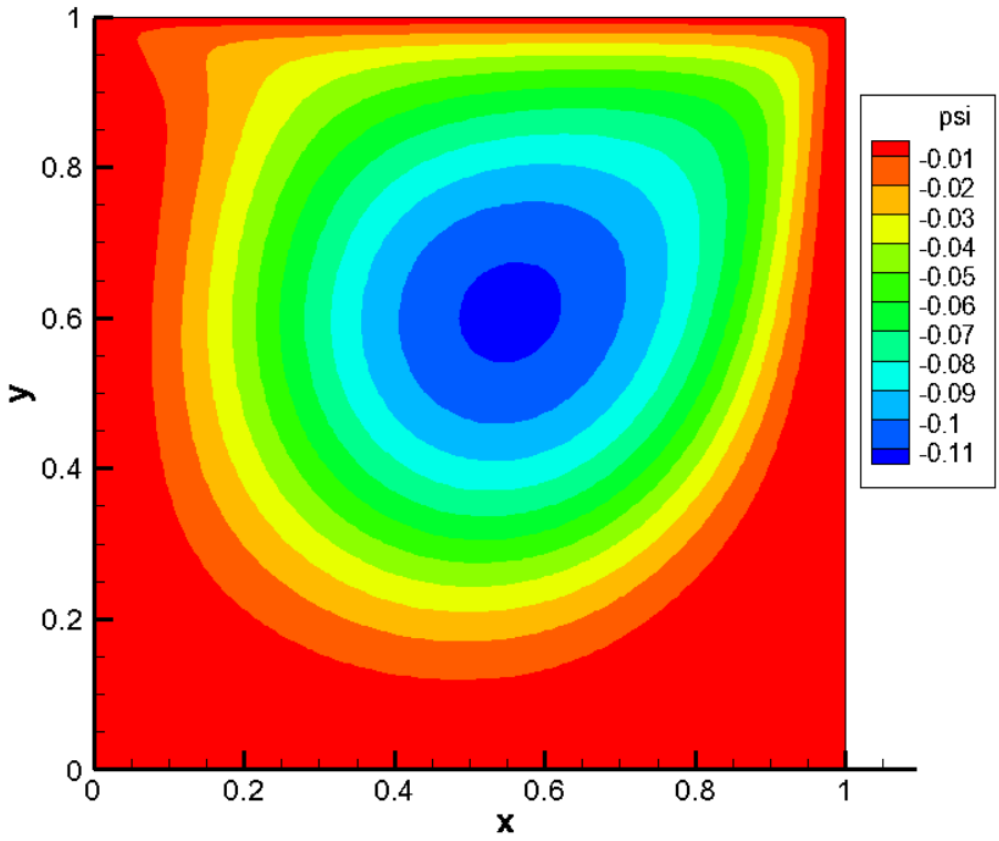
2. **Centre Line vertical velocity(v):**



3. **u_vector plot:**



4. v_vector plot:



5. Streamline Plot: