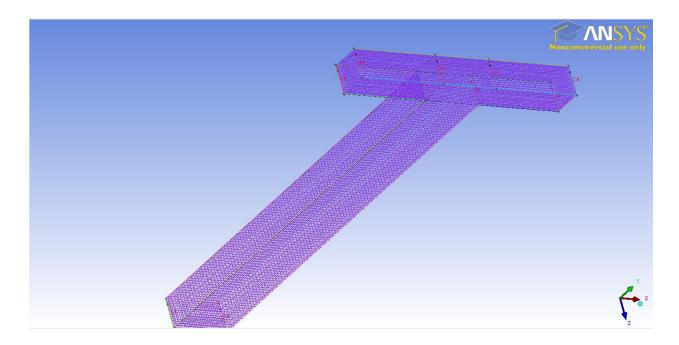
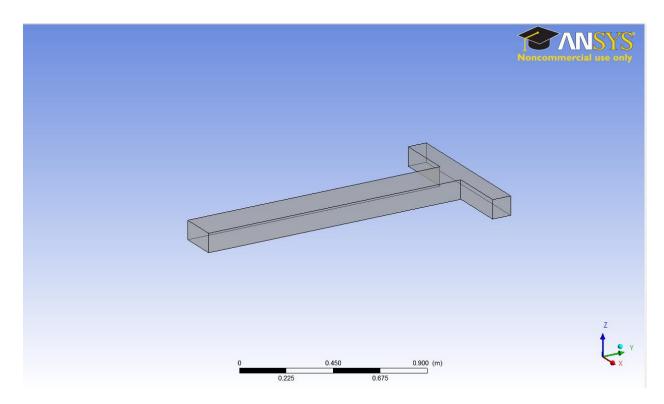


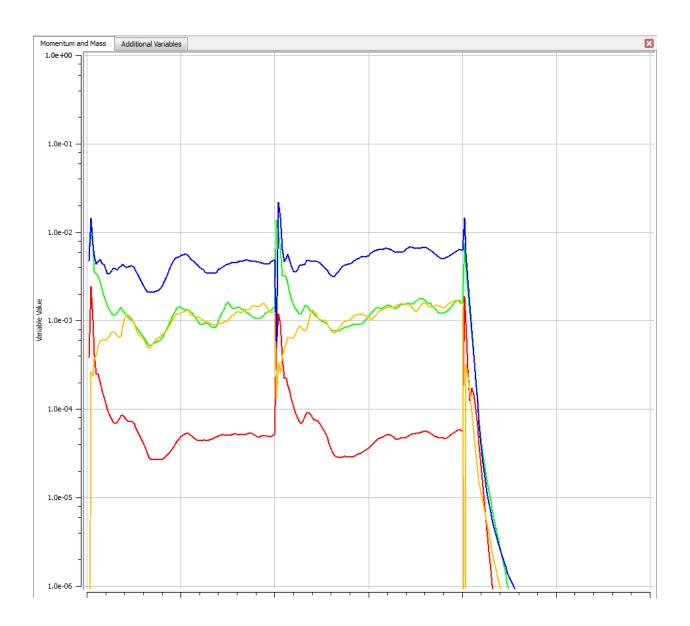
Mesh size:

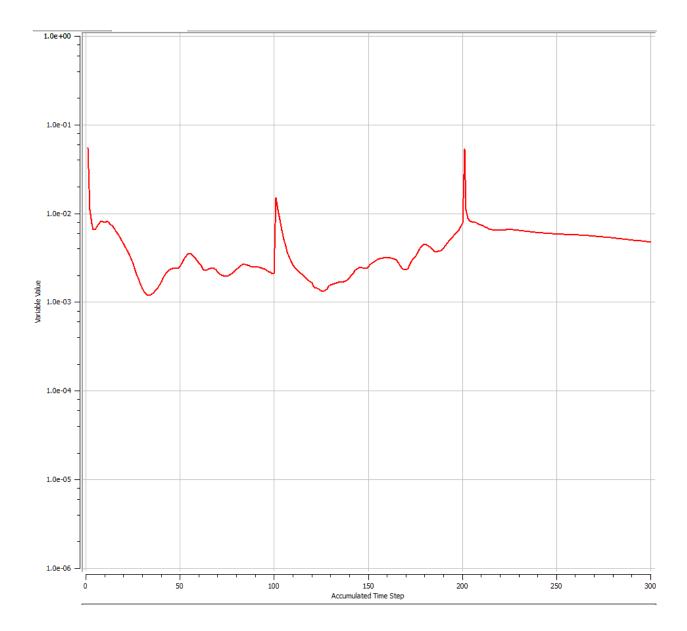
nodes = 66668 quads = 15258 hexas = 58786





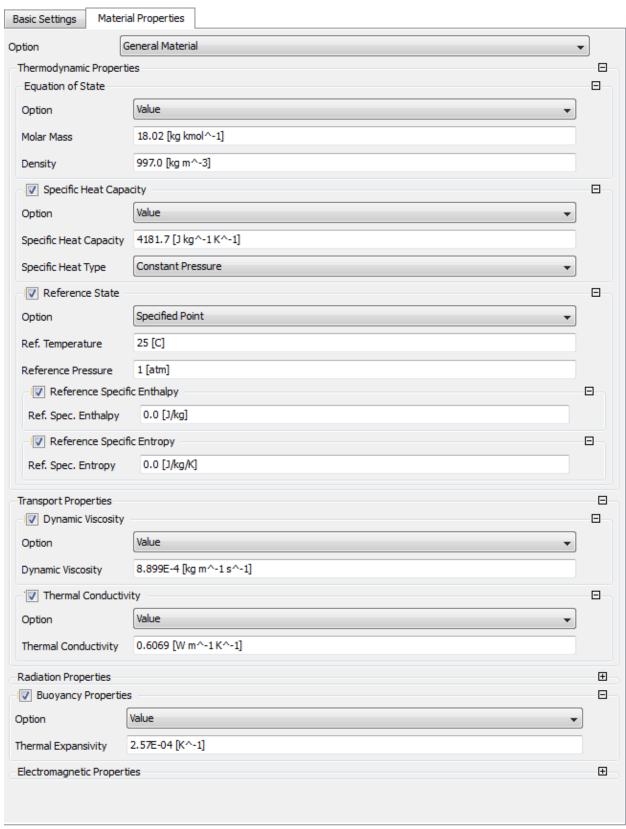
TASK 1

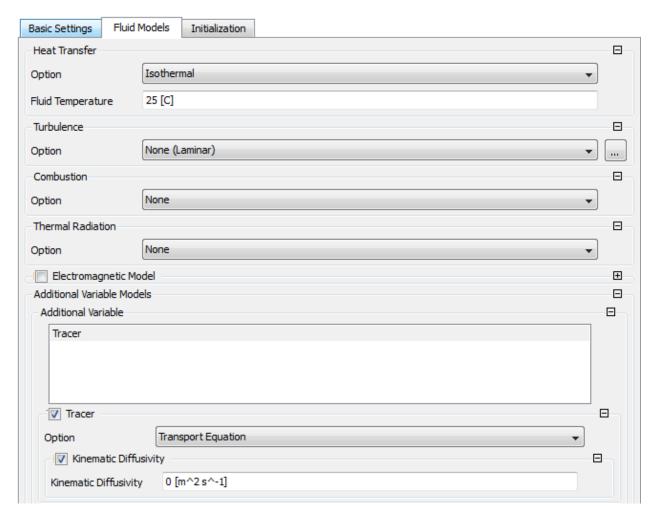




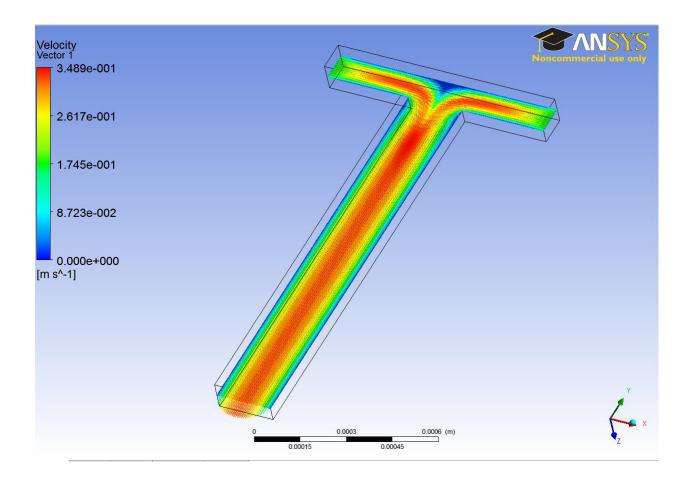
			+	
Average Scale Information	on		ı	
+			+	
Domain Name : Default Domain				
Global Length		=	3.3011E-04	l
Minimum Extent		=	1.0000E-04	
Maximum Extent		=	1.5000E-03	į.
Density		=	9.9700E+02	
Dynamic Viscosity		=	8.8990E-04	
Velocity		=	1.7677E-01	
Advection Time		=	1.8674E-03	ķ
Reynolds Number		=	6.5376E+01	
+			+	
Variable Range Informat			I	
+			+	
Domain Name : Default Domain				
+				
I IIi-bl- N				+
	min	. 1	max	+
+	min	. I	max	
+	min -3.70E	 -13	max + 1.00E+00	
Tracer	min -3.70E 9.97E	-13 +02	max + 1.00E+00 9.97E+02	
+	min -3.70E 9.97E 4.18E	-13 +02 +03	max + 1.00E+00 9.97E+02 4.18E+03	
+	min -3.70E 9.97E 4.18E 8.90E	-13 +02 +03 -04	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity	min -3.70E 9.97E 4.18E 8.90E 6.07E	-13 +02 +03 -04	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity Static Entropy	min -3.70E 9.97E 4.18E 8.90E 6.07E	-13 +02 +03 -04 -01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u	min -3.70E 9.97E 4.18E 8.90E 6.07E 0.00E	-13 +02 +03 -04 -01 +00	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u Velocity v	min -3.70E 9.97E 4.18E 8.90E 6.07E 0.00E	-13 +02 +03 -04 -01 +00 -01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.34E-01 3.40E-02	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u Velocity v Velocity w	min -3.70E 9.97E 4.18E 8.90E 6.07E 0.00E -3.34E -3.49E -3.42E	-13 +02 +03 -04 -01 +00 -01 -01 -01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.34E-01 3.40E-02 3.43E-02	
Tracer Density Specific Heat Capacity at Constant Pressure Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u Velocity v Velocity w Pressure	min -3.70E 9.97E 4.18E 8.90E 6.07E 0.00E -3.34E -3.49E -3.42E -6.40E	-13 +02 +03 -04 -01 +00 -01 -01 -01 -02 -01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.34E-01 3.40E-02	

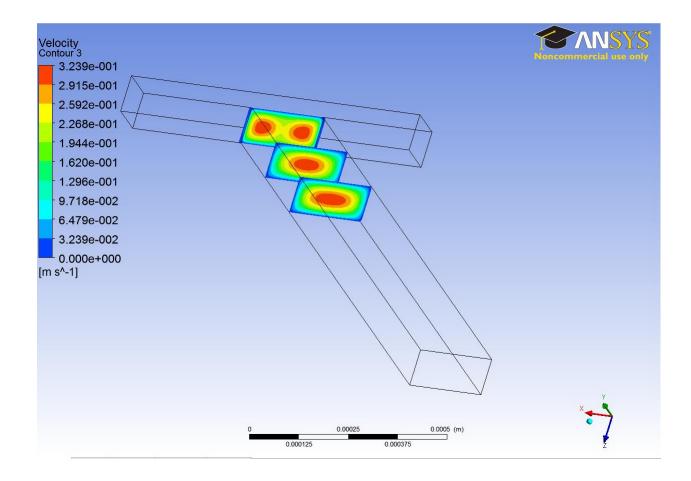
Composition

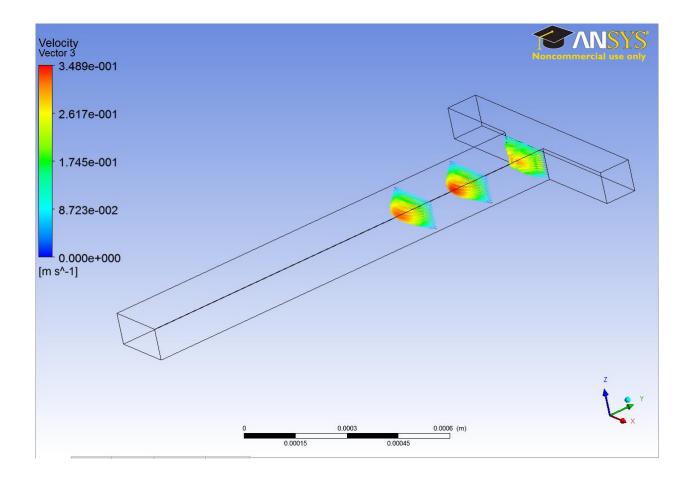


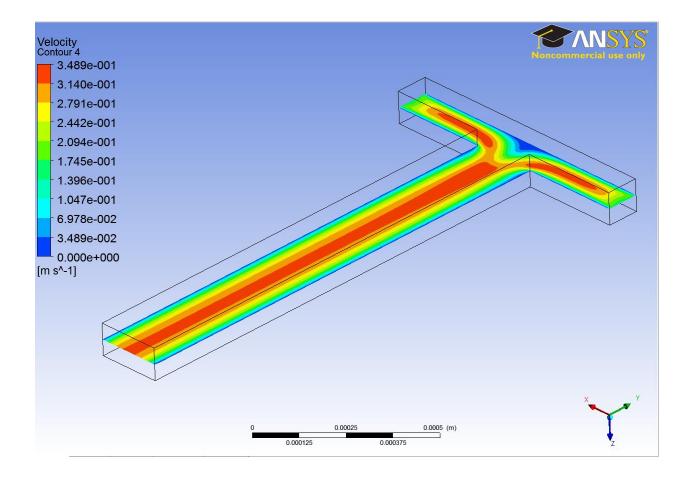


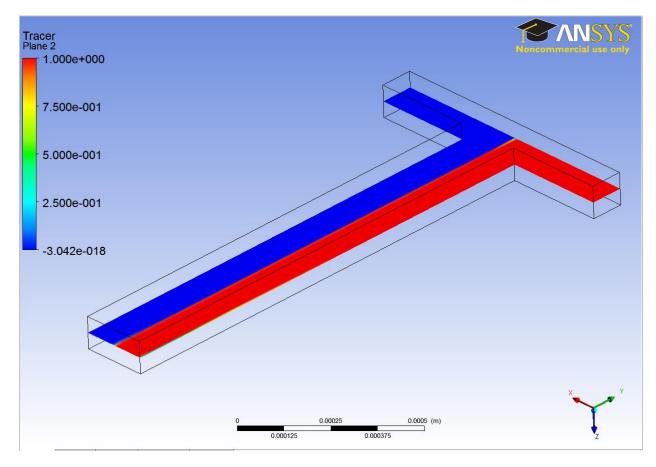
Z=0.05m



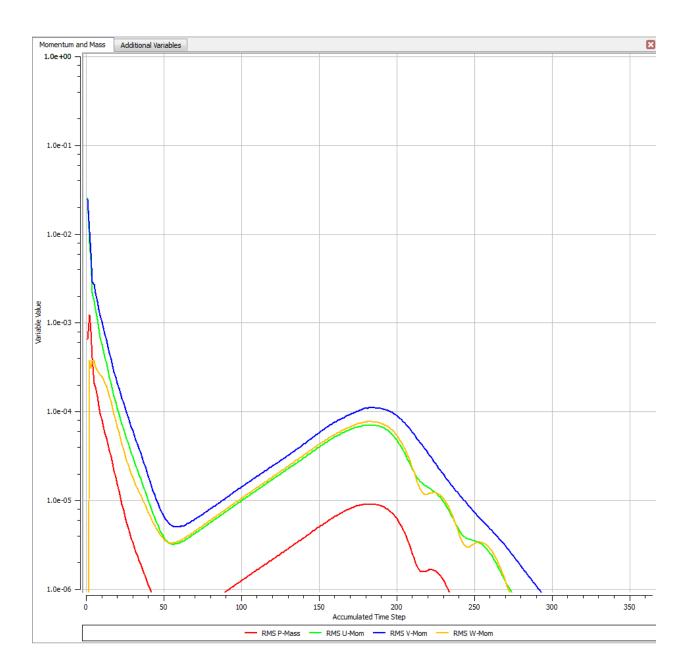




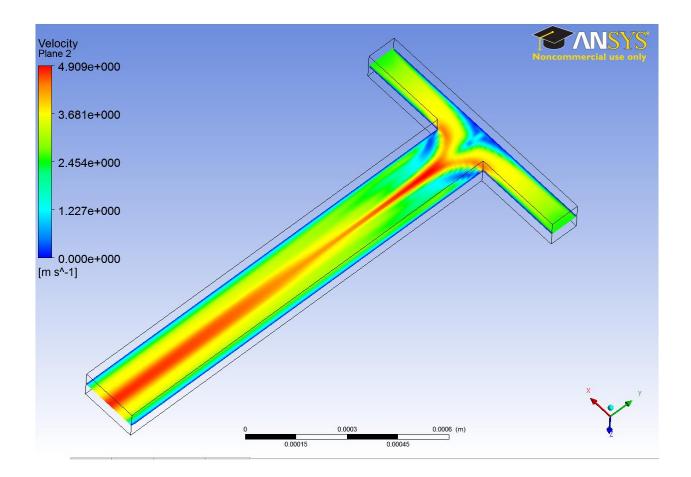


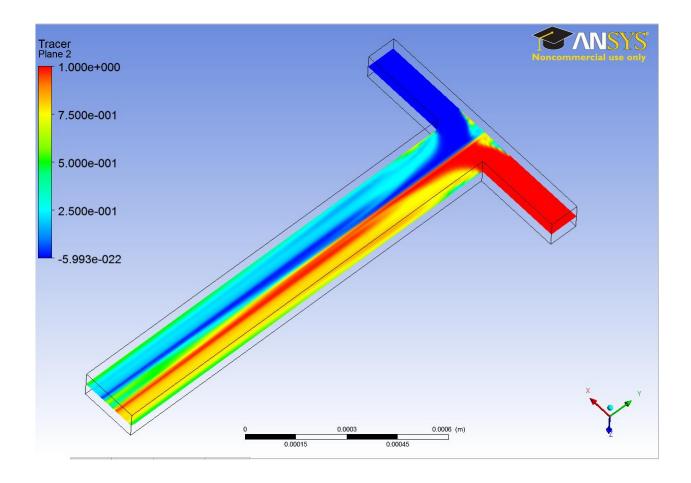


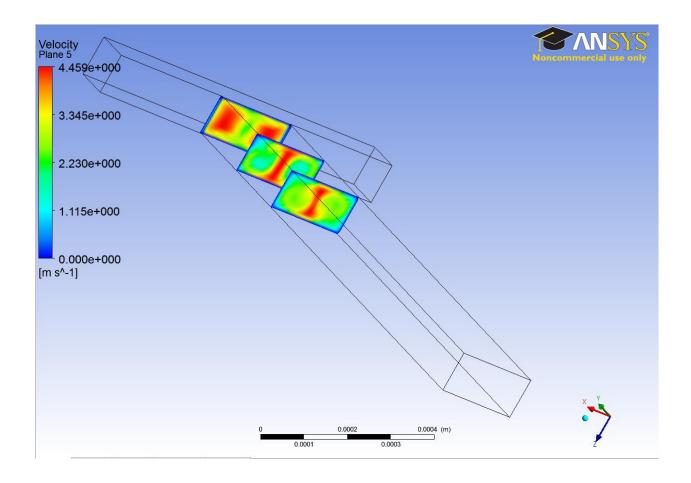
Task 2

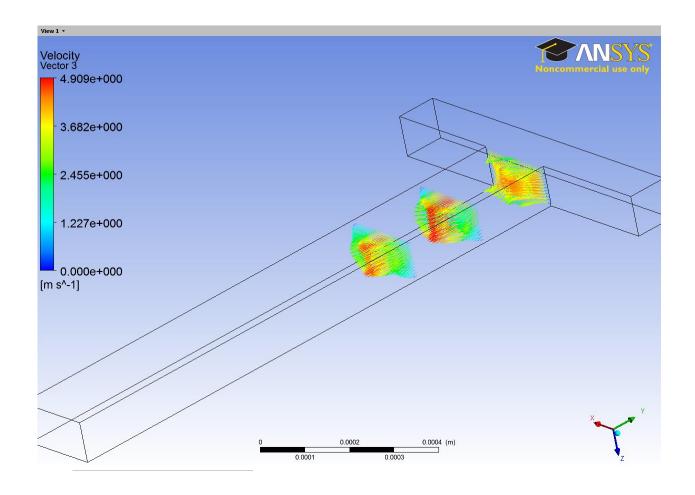


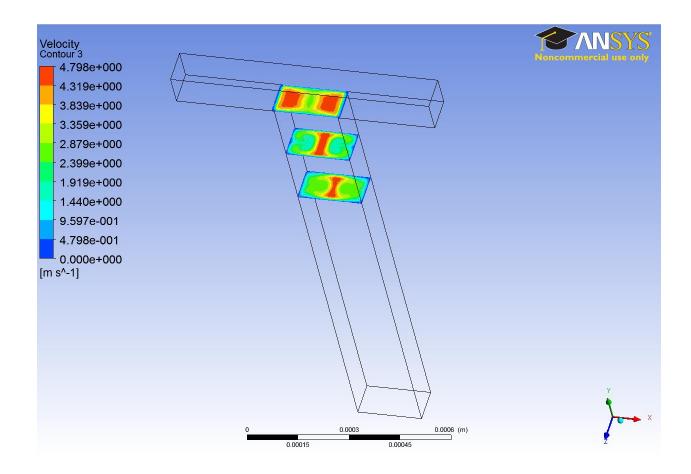
+								
I	Average S	cale						1
+								-+
Domain Name : Default	Domain							
Global Length							3.3011E-0	
Minimum Extent							1.0000E-0	
Maximum Extent							1.5000E-0	
Density							9.9700E+0	
Dynamic Viscosity	•							
Velocity Advection Time							2.6244E+0	
Reynolds Number							9.7059E+0	
keynolds Number						_	J. /USJET	02
								-+
	Variable	Range	Informati	ion				i
								-+
Variable Name			ı	mir	1	Ĺ	max	i
Variable Name				mir	1	1	max	i -+
Variable Name			 	mir -3.46	1 2-16	 	max	i -+ 1
Variable Name Tracer Density			 	mir -3.46 9.97	1 I-16 I+02	 	max 1.00E+00 9.97E+02	 -+
Variable Name Tracer Density Specific Heat Capac			 Pressure	mir -3.46F 9.97F 4.18F	1 1-16 1+02 1+03	 	max 1.00E+00 9.97E+02	-+ - - - - - - - -
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity	ity at Con		 Pressure	mir -3.46F 9.97F 4.18F	1 1-16 1+02 1+03 1-04	 - - - -	max 1.00E+00 9.97E+02 4.18E+03	-+
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity Thermal Conductivit	ity at Con		 Pressure	-3.46F -3.46F 9.97F 4.18F 8.90F	1 2-16 2+02 2+03 2-04 3-01	 	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04	-+
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity Thermal Conductivit Static Entropy	ity at Con		 	-3.46F -3.46F 9.97F 4.18F 8.90F 6.07F 0.00F	1 (-16 (+02 (+03 (-04 (-01 (+00	 	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01	-+
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity Thermal Conductivit Static Entropy Velocity u	ity at Con		 	-3.46F -3.46F 9.97F 4.18F 8.90F 6.07F 0.00F	1 2-16 2+02 2+03 2-04 3-01 3+00	 	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00	-+
Variable Name Tracer Density	ity at Con		 Pressure 	mir -3.46F 9.97F 4.18F 8.90F 6.07F 0.00F -4.25F	1 2-16 2+02 2+03 2-04 2-01 2+00 2+00	 	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 4.25E+00	-+
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity Thermal Conductivit Static Entropy Velocity u Velocity v	ity at Con		 	mir -3.46E 9.97E 4.18E 8.90E 6.07E 0.00E -4.25E -4.91E	1 2-16 2+02 2+03 2-04 2-01 2+00 2+00 2+00 2+00		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 4.25E+00 1.47E+00	-+
Variable Name Tracer Density Specific Heat Capac Dynamic Viscosity Thermal Conductivit Static Entropy Velocity u Velocity v Velocity w	ity at Con		Pressure	mir -3.46E 9.97E 4.18E 8.90E 6.07E 0.00E -4.25E -4.91E -1.99E	1-16 2+02 2+03 2-04 3-01 3+00 3+00 3+00 3+00 3+00		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 4.25E+00 1.47E+00 1.98E+00	· +

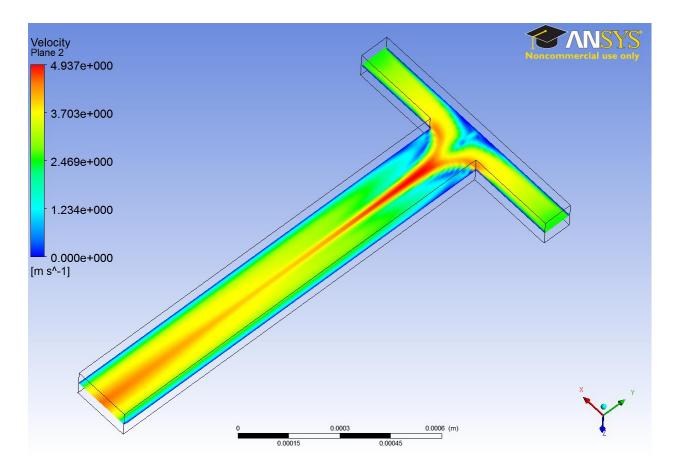




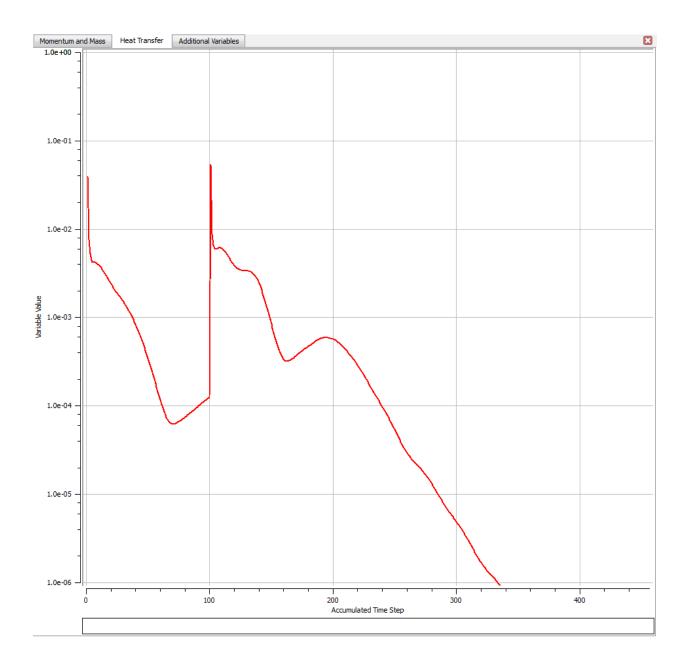


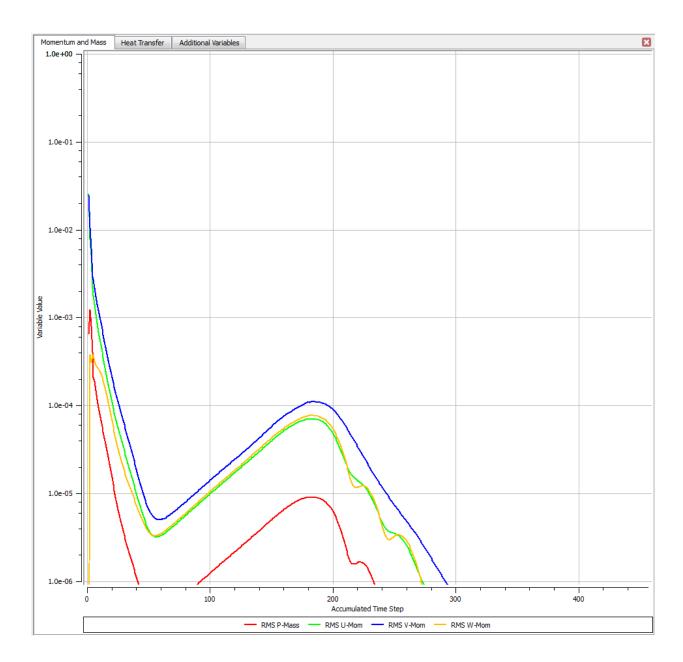




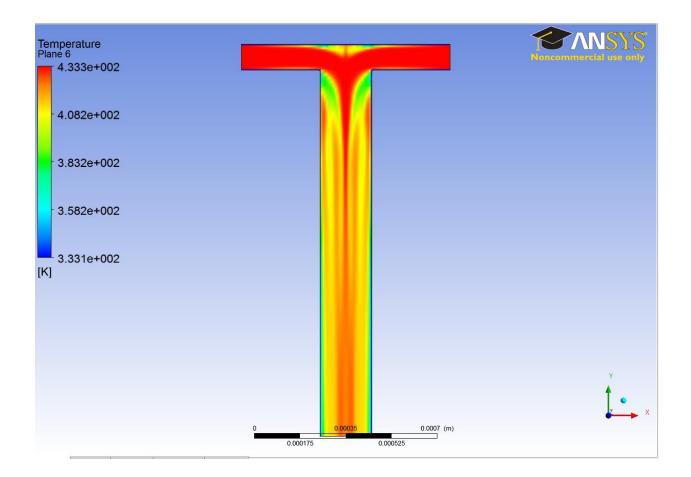


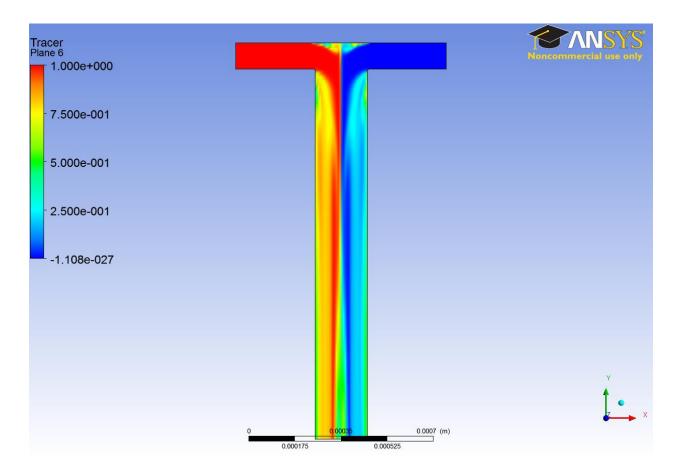
Task 3





 +	Average Scale Information			
Dom	main Name : Default Domain			
	Global Length		=	3.3011E-04
	Minimum Extent		=	1.0000E-04
	Maximum Extent		=	1.5000E-03
	Density		=	9.9700E+02
	Dynamic Viscosity		=	8.8990E-04
	Velocity		=	2.6244E+00
	Advection Time		=	1.2579E-04
	Reynolds Number		=	9.7059E+02
	Thermal Conductivity		=	6.0690E-01
	Specific Heat Capacity at Constant Pressure		=	4.1817E+03
	Prandtl Number		=	6.1316E+00
	Temperature Range		=	1.0046E+02
	Variable Range Information	n		
 	Variable Range Information			
	-			
	nain Name : Default Domain Variable Name	min	 I	max
 	nain Name : Default Domain Variable Name	min	 	max
 	Nain Name : Default Domain Variable Name	min -1.01E-22	 	max
T:	Nain Name : Default Domain Variable Name	min -1.01E-22 9.97E+02	 	max 1.00E+00 9.97E+02
T: De	Variable Name	min -1.01E-22 9.97E+02 4.18E+03	 	max 1.00E+00 9.97E+02
T: De Si	Variable Name Variable Name	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04	 	max 1.00E+00 9.97E+02 4.18E+03
T: De Si D:	Variable Name Variable Name	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04
T: De Si	Variable Name Variable Name	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01 4.60E+02		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01
T: De S] D: T:	Variable Name Valuable Name Valuab	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01 4.60E+02 -4.25E+00		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03
T: D: S: D: T: S:	Variable Name Variable Name Cracer Consity Specific Heat Capacity at Constant Pressure Constant Conductivity Chermal Conductivity Static Entropy Velocity u	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01 4.60E+02 -4.25E+00 -4.91E+00		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.25E+00
T: T: D: D:	Variable Name Variab	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01 4.60E+02 -4.25E+00 -4.91E+00		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.25E+00 1.47E+00
+	Variable Name Variab	min -1.01E-22 9.97E+02 4.18E+03 8.90E-04 6.07E-01 4.60E+02 -4.25E+00 -4.91E+00 -1.99E+00 -6.69E+01		max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.25E+00 1.47E+00 1.98E+00





Area Average of Temperature on OUTLET

392.195 [K]

Area Integral of Heat Flux on Default Domain Default

-1.84134 [W]

Area Integral of Heat Flux on SYM1

-1.84424 [W]

Area Integral of Heat Flux on SYM2

-1.84232 [W]

Area Average of Temperature on SYM2

365.215 [K]

Area Average of Temperature on Default Domain Default

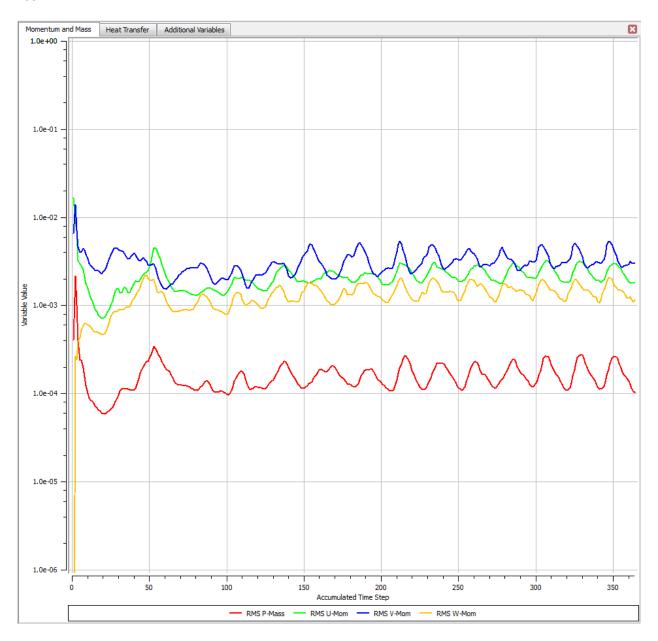
358.997 [K]

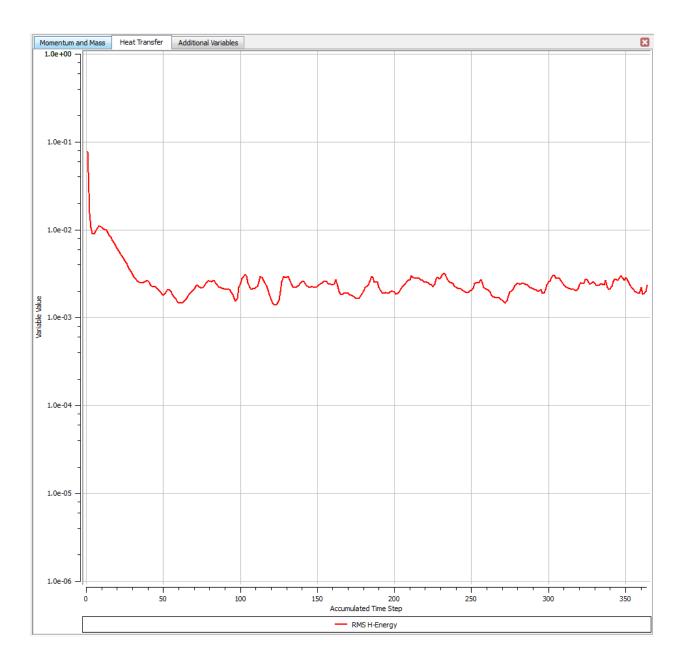
Calculate:

Volume on Default Domain

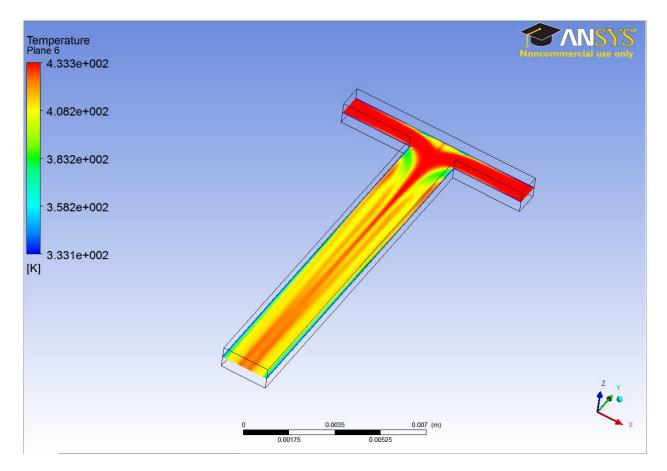
3.59727e-011 [m^3]

Task 4





· ·					-+
Average Scale Informa					į
+					-+
Domain Name : Default Domain					
Global Length			=	3.3011E-	03
Minimum Extent			=	1.0000E-	03
Maximum Extent			=	1.5000E-	02
Density			=	9.9700E+	02
Dynamic Viscosity			=	8.8990E-	04
Velocity			=	2.6177E+	00
Advection Time			=	1.2611E-	03
Reynolds Number			=	9.6813E+	03
Thermal Conductivity			=	6.0690E-	01
Specific Heat Capacity at Constant Pres	ssur	e		4.1817E+	
Prandtl Number				6.1316E+	
Temperature Range			=	4.9902E+	01
Variable Range Inform					-+
+					-+
Domain Name : Default Domain					
+					-+
+	- 1	min			-+ !
+					
Variable Name Tracer	<u> </u>	-3.52E-02	1	1.07E+00	i
Variable Name Tracer Density	 	-3.52E-02 9.97E+02	 	1.07E+00 9.97E+02	i I
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03	 	1.07E+00 9.97E+02 4.18E+03	
	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03 -4.28E+00	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.13E+00	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03 -4.28E+00 -4.59E+00	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.13E+00 3.09E+00	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03 -4.28E+00 -4.59E+00 -2.35E+00	 	1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.13E+00 3.09E+00 2.04E+00	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03 -4.28E+00 -4.59E+00 -2.35E+00 -8.10E+03		1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.13E+00 3.09E+00 2.04E+00 7.01E+03	
Variable Name	 	-3.52E-02 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.05E+03 -4.28E+00 -4.59E+00 -2.35E+00		1.07E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 1.56E+03 4.13E+00 3.09E+00 2.04E+00 7.01E+03 4.33E+02	



Area Integral of Heat Flux on Default Domain Default

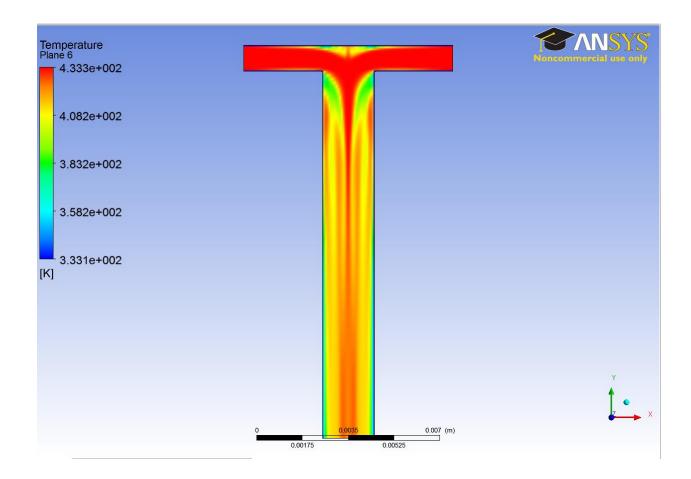
-18.4127 [W]

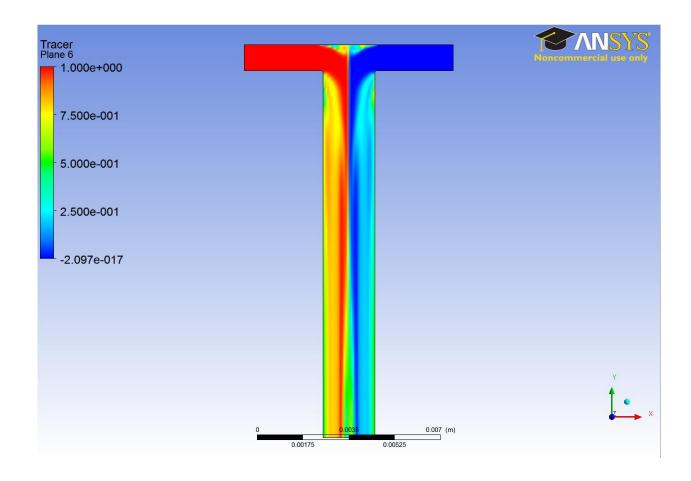
Area Integral of Heat Flux on SYM1

-18.4174 [W]

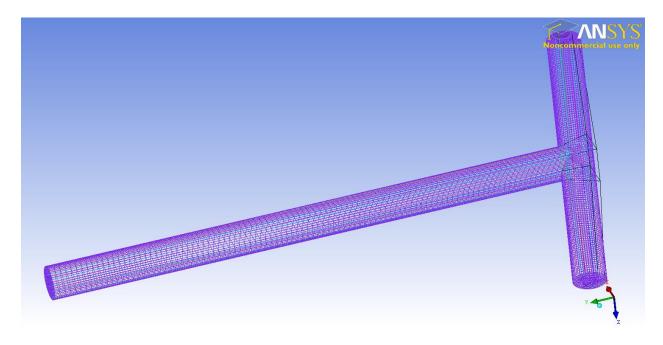
Area Integral of Heat Flux on SYM2

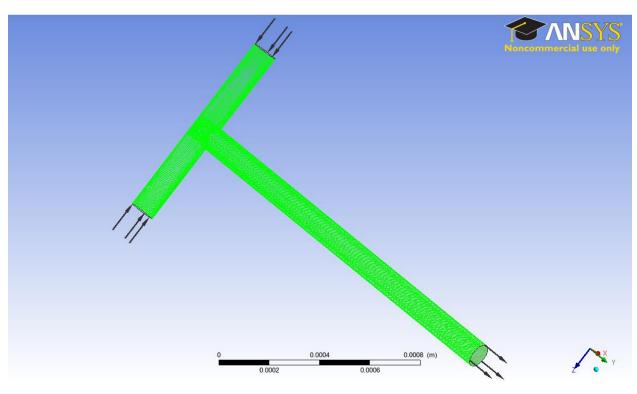
-18.452 [W]

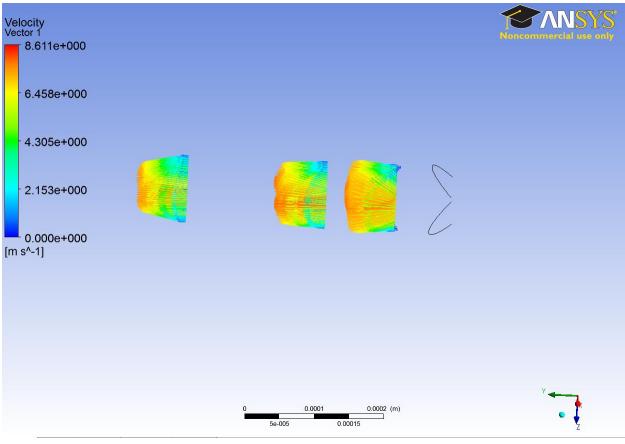


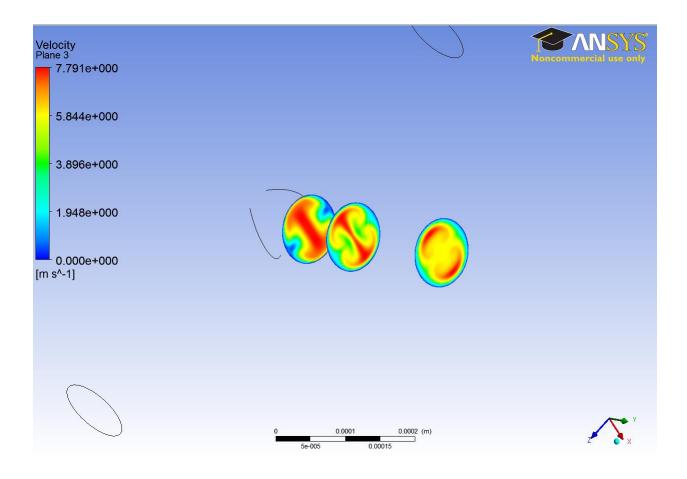


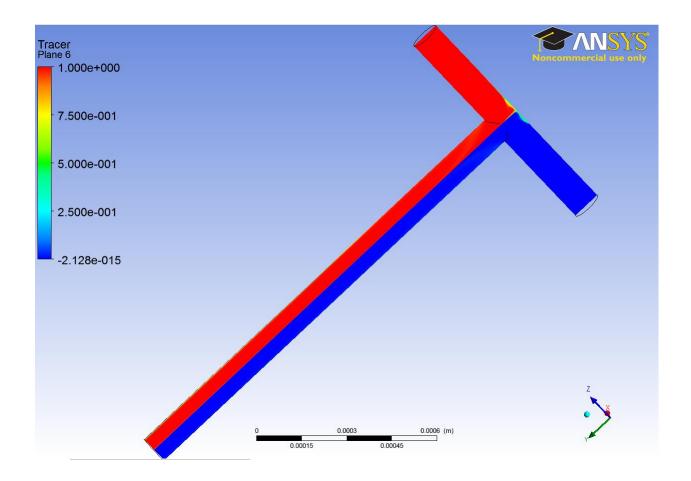
Task 5

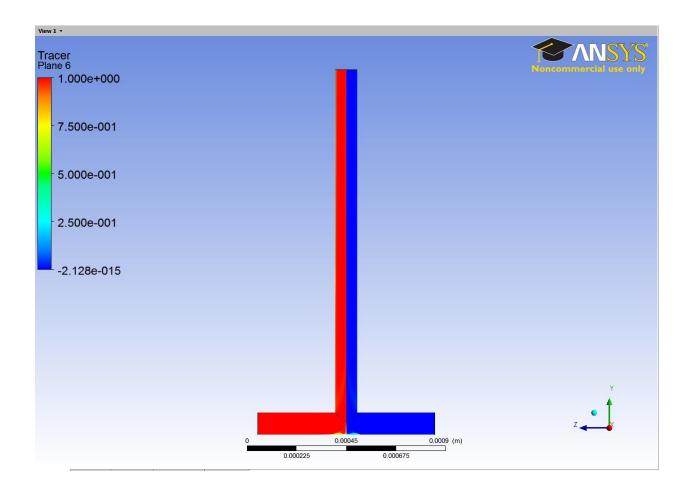


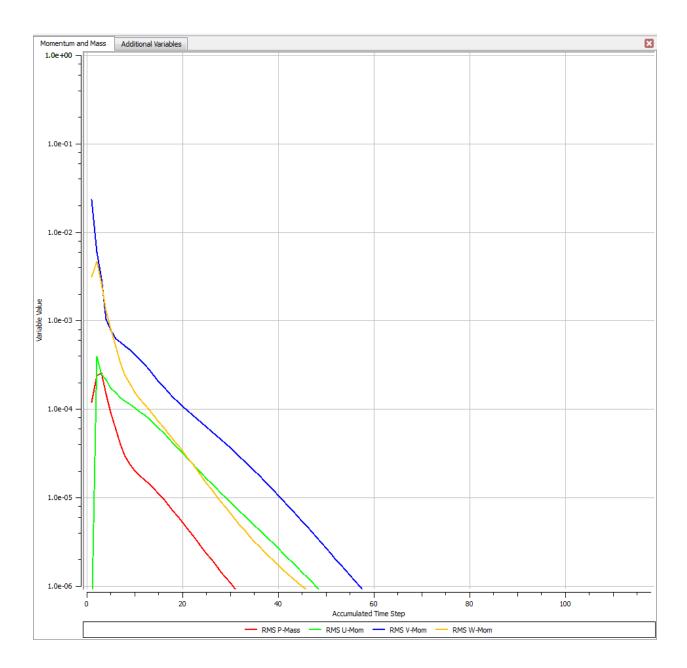


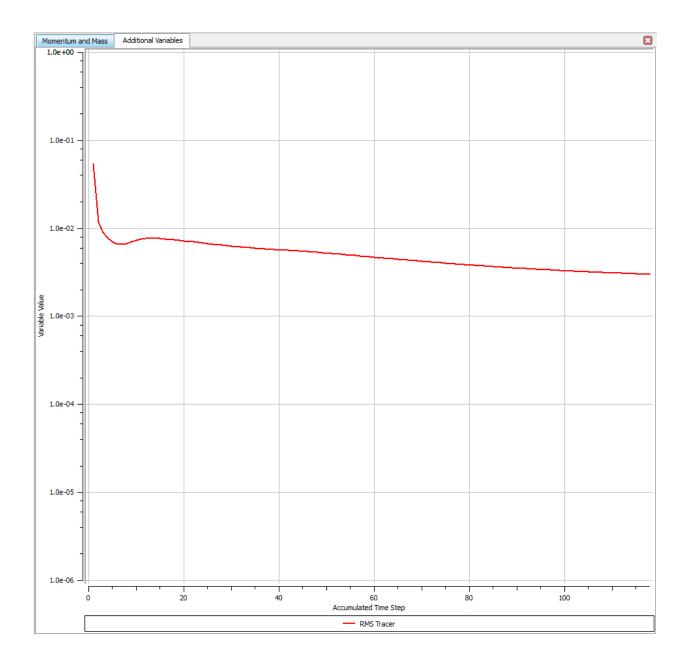












+							-+
	Average S						1
+							-+
Domain Name : Default	Domain						
Global Length					=	2.6437E-0)4
Minimum Extent					_	9.9997E-0)5
Maximum Extent					=	1.6500E-0	03
Density					=	9.9700E+0)2
Dynamic Viscosity					=	8.8990E-0)4
Velocity					=	4.8510E+0	00
Advection Time					=	5.4498E-0)5
Reynolds Number					=	1.4368E+0)3
			Informati				+
I	Variable	Range	Informati	.on			i
I	Variable	Range	Informati	.on			i
	Variable	Range	Informati	.on			i
	Variable Domain	Range	Informati	.on			-+
Domain Name : Default	Variable Domain	Range	Informati	on min		max	 -+ -+
Domain Name : Default	Variable Domain	Range	Informati	on min	 I	max	-+
Oomain Name : Default Variable Name Tracer	Variable Domain	Range	Informati	.on min 	 	max 1.00E+00	-+ -+ -+
Domain Name : Default Variable Name Tracer Default	Variable Domain	Range	Informati	.on min -2.29E- 9.97E+	 15 02	max 1.00E+00 9.97E+02	-+ -+
Domain Name : Default Variable Name Tracer Density Specific Heat Capac	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+	 	max 1.00E+00 9.97E+02	-+ -+ -
Oomain Name : Default Variable Name Tracer Density Specific Heat Capac:	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E-	 15 02 03 04	max 1.00E+00 9.97E+02 4.18E+03	-+ -+ -
Oomain Name : Default Variable Name Tracer Density Specific Heat Capac: Dynamic Viscosity Thermal Conductivity	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E-	 15 02 03 04 01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04	· -+ -+
Oomain Name : Default Variable Name Tracer Density Specific Heat Capac: Dynamic Viscosity Thermal Conductivity	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E- 0.00E+	 15 02 03 04 01	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01	. -+
Domain Name : Default Variable Name Variable Name Tracer Density Specific Heat Capac: Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E- 0.00E+ -3.14E+	 15 02 03 04 01 00	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00	. -+
 Variable Name	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E- 0.00E+ -3.14E+ -1.82E+	 	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.14E+00	· +
Domain Name : Default Variable Name Variable Name Tracer Density Specific Heat Capac: Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u Velocity v	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E- 0.00E+ -3.14E+ -1.82E+	15 02 03 04 01 00 00 00	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.14E+00 8.61E+00	· -+
Variable Name Variable Name Tracer Density Specific Heat Capac: Dynamic Viscosity Thermal Conductivity Static Entropy Velocity u Velocity w	Variable Domain	Range	Informati	min -2.29E- 9.97E+ 4.18E+ 8.90E- 6.07E- 0.00E+ -3.14E+ -1.82E+ -5.62E+ -3.78E+	15 02 03 04 00 00 00 00	max 1.00E+00 9.97E+02 4.18E+03 8.90E-04 6.07E-01 0.00E+00 3.14E+00 8.61E+00 5.62E+00	. -+