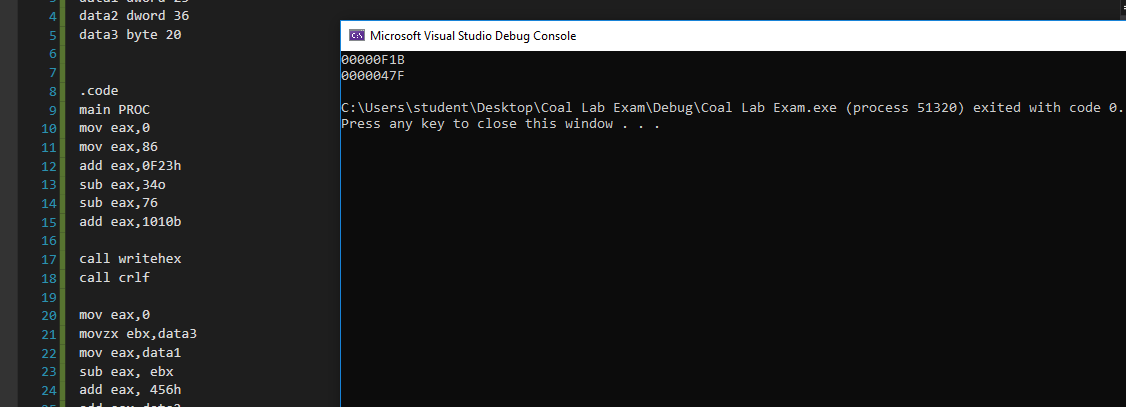
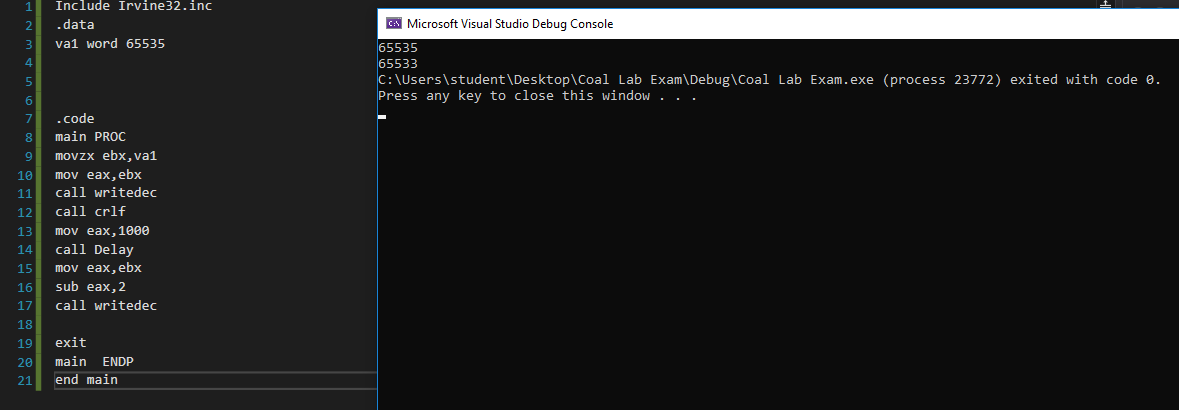
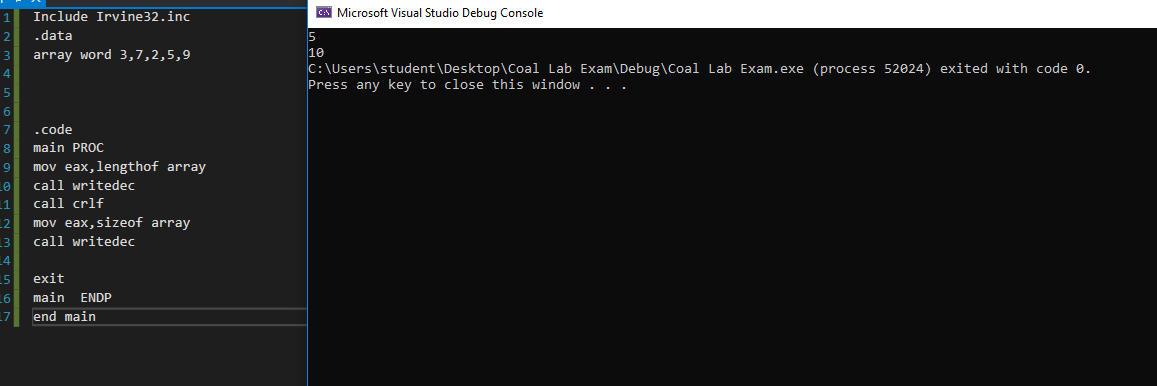
**Q1a Code + Output**



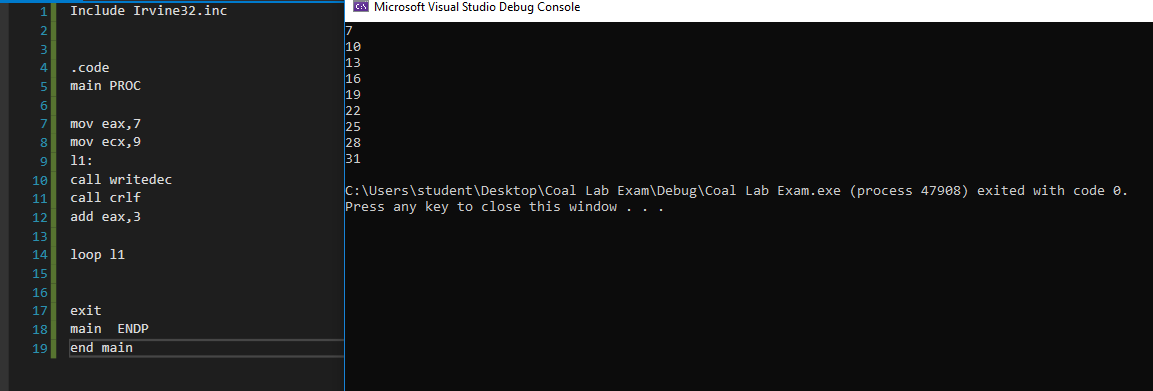
**Q1b Code + Output**



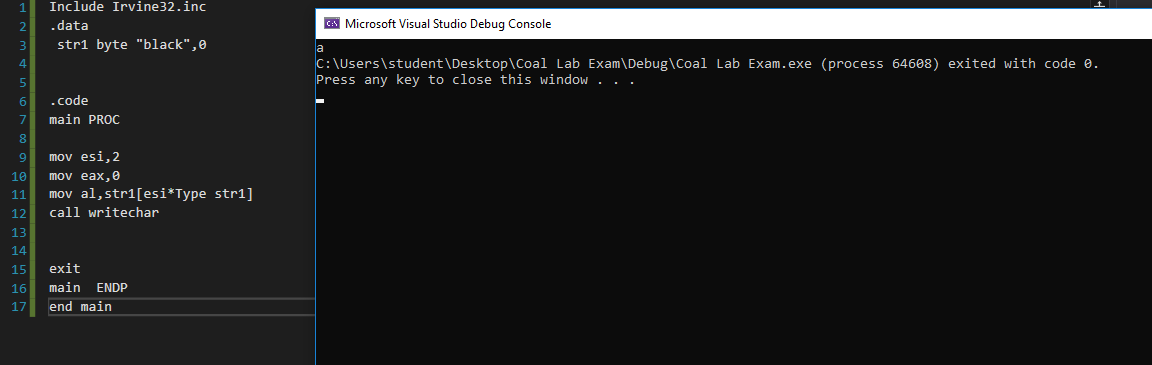
**Q1c Code + Output**



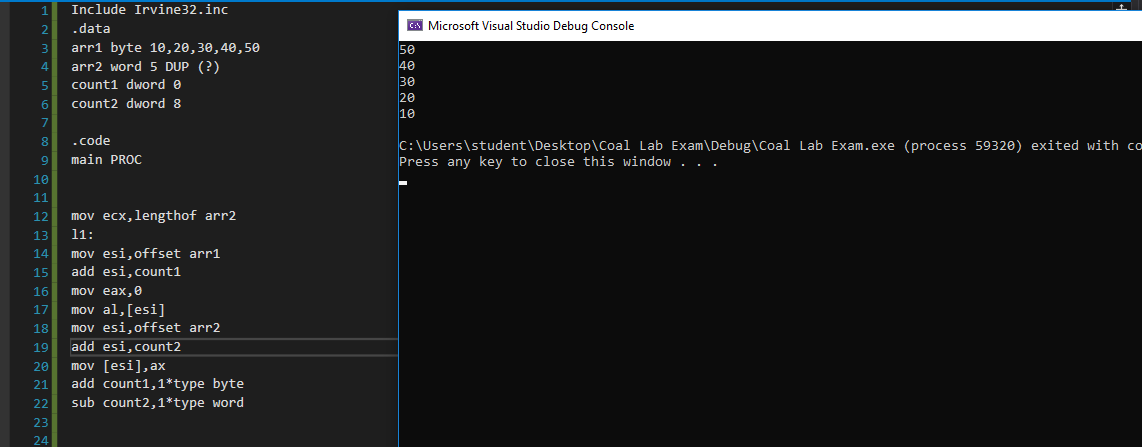
**Q2 Code + Output**



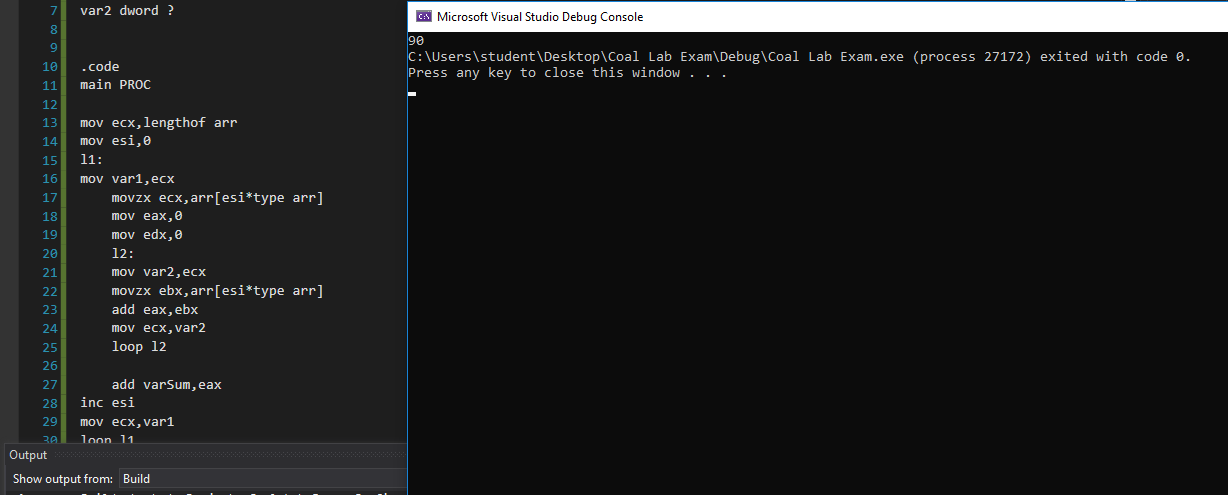
**Q3a Code + Output**



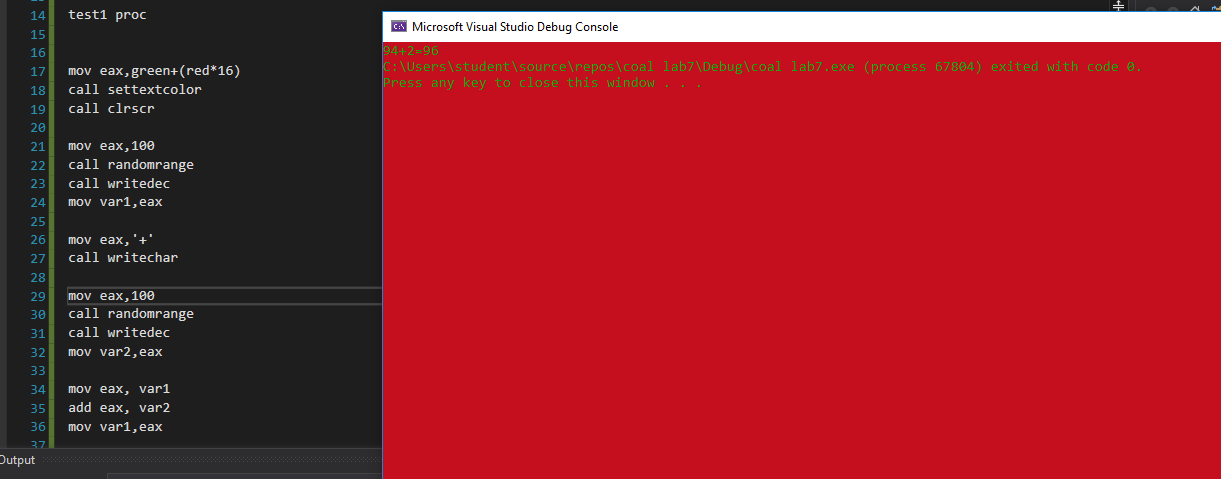
**Q3b Code + Output**



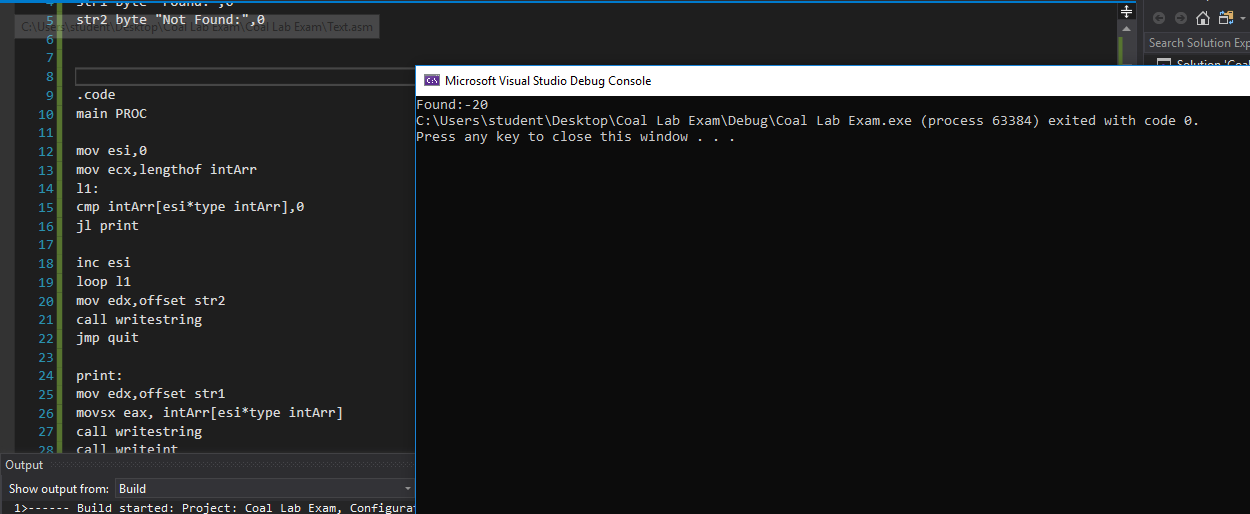
**Q4a Code + Output**



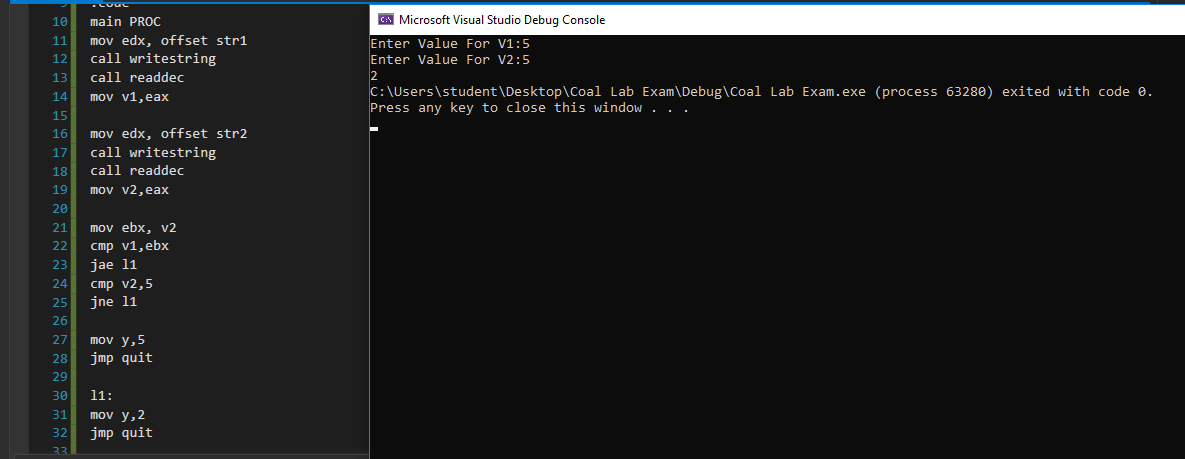
**Q4b Code + Output**



**Q5a Code + Output**



**Q5b Code + Output**



**Q6 Code + Output**

