ALL PRAISE DUE TO ALLMIGHTY ALONE

1. Write a program to display string.
2. Write a program to read a character and display it on the next line.
3. Write a program to display 10-10 star box.
4. Write a program to convert lower case letter to upper case letter.
5. Write a program to show working process of backspace and tab.
6. Write a program to convert hex (A-F) to decimal.
7. Write a program to (a) prompt the user (b) read first, middle, last initials of a person’s name (c) display them down the left margin.
8. Write a program to (a) display a “?” (b) Read two decimal digits whose sum is less than 10 (c) display them and their sum on the next line with appropriate message.
9. Write a program to (a) display a “?” (b) Read three initials (c) display them in the middle of an 11-11 box of asterisks (d) beep the computer.
10. Write a program to (a) Read a character (b) If the character is an upper case letter convert it to corresponding lower case letter or if the character is a lower case letter convert it to corresponding upper case letter. 11.
11. Write a program to (a) take two inputs (b) display them on the next line.

12. Write a program to count the number of characters in an input line. It must be able to count above 9 characters.

13. Write a program that will prompt the user to enter a character. It will display on the next line is that character is an ASCII character or Small Letter or Capital Letter. Then ask the user if he or she wants to do it again. If the user types ‘y’ or ‘Y’ the program repeats. If the user types ‘n’ or ‘N’ the program will exit. If the user enters illegal character the program request the user to try again.

14. Write a program that prompts the user to enter a character. It will display on the next line is that character is an ASCII character or Small Letter or Capital Letter.

15. Write a program to display a “?”, read two capital letters and display them on the next line in alphabetical order.

16. Introducing AND, OR, XOR.

17. Write a program that will prompt the user to enter a line of text. On the next line, display the capital letter entered that comes first alphabetically and the one that comes last. If no capital letters are entered, display “No capital letters”.

18. Write a program that reads a string of capital letters, ending with a carriage return and displays the longest sequence of consecutive alphabetically increasing capital letters read.

19. Write a program that reads a five character password and overprint it by executing a carriage return and displaying five X’s. You need not store the input characters anywhere.

20. Write a program that prompts the user to enter a character and prints the ASCII code of the character in hex on the next line. Repeat this process until the user types a carriage return.

21. Write a program to read a string of 1’s or 0’s (Binary) and display them in reverse order and count the number of 1 bits.

22. Write a program to read a sequence of characters and display them in reverse order on the next line.

23. Write a program to read a string of 1’s or 0’s (Binary) and display them in same order on the next line.

24. Write a program to read a string of 1’s or 0’s (Binary) and display them in reverse order on the next line.

25. Write a program that prompts the user to type a binary number of 16 digits or less and outputs it in hex on the next line. If the user enters an illegal character, he or she should be prompted to begin again.

26. Write a program that prompts the user to type a hex number of four hex digits or less and outputs it in binary on the next line. If the user enters an illegal character, he or she should be prompted to begin again. Accept only upper case letters.

27. Write a program that prompts the user to a character and on subsequent lines prints its ASCII code in binary and the number of 1 bits in its ASCII code.

28. Write a program to multiply a value by 8.

29. Write a program that lets the user type some text, consisting of words separated by blanks, ending with a carriage return and displays the text in the same word order as entered but with the letters in each word reversed.

30. Write a program that swaps two digits using stack.

31. Write a program to display the entire IBM character set.

32. Write a program to find biggest among two inputs and keep the biggest one in another register.

33. Write a program to convert a number in a register to its absolute value.

34. Write a program to display the character which comes first in sequence.

35. Write a program to show functions of Case in assembly. Suppose, bh is a register. (a) If bh contains negative number, put -1 in a memory location. (b) If bh contains 0, put 0 in a memory location. (c) If bh contains positive number, put +1 in a memory location.

36. Write a program to display ‘’o’’ if AL contains 1 or 3; if AL contains 2 or 4, display “e”.

37. Write a program that reads a character and if it’s a uppercase letter, display it.

38. Write a program that reads a character. If it’s a “y” or “Y”, display it. Otherwise terminate the program.

39. Write a program to count the number of characters in an input line. It counts bellow 9 characters.

40. Write a program to read characters until a blank is read.

41. Write a program to display the extended ASCII characters (80h to FFh). Display 10 characters per line, separated by blanks. Stop after the extended characters have been displayed once.

42. Write a program to display 80 stars.

43. Write a program that puts 1 + 4 + 7 + ………. + 148 in AX.

44. Write a program that will calculate N! for a positive integer N.

45. Write a program to display the extended ASCII characters. Display 10 characters per line.

46. Write a program that will prompt the user to enter a character. It will display on the next line is that character is an ASCII character or Small Letter or Capital Letter. Then ask the user if he or she wants to do it again. If the user types ‘y’ or ‘Y’ the program repeats. If the user types ‘n’ or ‘N’ the program will exit. If the user enters illegal character the program request the user maximum three times to try again.

47. Write a program that reads N and prints N number of stars.

48. Write a program that reads N and prints N lines of N stars.

49. Write a program that prints 0-9.

50. Write a program to convert upper case letter to lower case letter.

51. Write a program that adds four digits.

52. Write a program that finds bigger among two digits.

53. Write a program that finds biggest among three digits.

54. Write a program that shows subtraction process.

55. Write a program to swap two digits both manually and using XCHG instruction.

56. Write a program to make a triangle using loop concept.

57. Write a program to show functionality of EQU instruction.

58. Write a program to describe procedure concept.

59. Write a program to check password.

60. Write a program that prompts the user to enter a string of decimal digits, ending with a carriage return and prints their sum in hex on the next line. If the user enters an illegal character, he or she should be prompted to begin again.

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