Assignment 6

1. Write a program to determine whether a given number is a palindrome. If it is a palindrome, print the number. Otherwise, print "Not a palindrome."

2. Write a program that takes a string as input and prints the number of vowels in the string.

3. Write a program that takes a string as input and prints the reverse of the string.

4. Write a program that takes a string as input and prints the number of unique characters in the string.

5. Write a program that takes a string as input and prints the string with all vowels replaced by the letter 'X'.

6. Write a program that takes a string as input and prints the string with all consonants replaced by the letter 'Z'.

7. Write a program that takes a string as input and prints the string with all characters replaced by their ASCII values.

8. Write a program that takes a string as input and prints the string with all spaces removed.

9. Write a program that takes a string as input and prints the string in reverse order.

10. Write a program that takes a string as input and prints the string in a zigzag pattern.

11. Write a program that takes a string as input and prints the string with all characters converted to uppercase.

12. Write a program that takes a string as input and prints the string with all characters converted to lowercase.

13. Write a program that takes a string as input and prints the string with all characters converted to the next character in the alphabet.

14. Write a program that takes a string as input and prints the string with all characters converted to the previous character in the alphabet.

15. Write a program that takes a string as input and prints the string with all characters converted to their numerical values (0-9).

16. Write a program that takes a string as input and prints the string with all characters converted to their hexadecimal values.

17. Write a program that takes a string as input and prints the string with all characters converted to their octal values.

18. Write a program that takes a string as input and prints the string with all characters converted to their binary values.

19. Write a program that takes a string as input and prints the string with all characters converted to their ASCII values.

20. Write a program that takes a string as input and prints the string with all characters converted to their Unicode values.

21. Write a program that takes a string as input and prints the string with all characters converted to their hexadecimal values.

22. Write a program that takes a string as input and prints the string with all characters converted to their octal values.

23. Write a program that takes a string as input and prints the string with all characters converted to their binary values.

24. Write a program that takes a string as input and prints the string with all characters converted to their ASCII values.

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39. Write a program that takes a string as input and prints the string with all characters converted to their ASCII values.

40. Write a program that takes a string as input and prints the string with all characters converted to their Unicode values.