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## Super - X

**Assignment - 0**

**Time: 45 min**

**Note : Write solutions in function format only and take input from user**

**Date: 01/10/2023**

**Points : 35**

- 1) WAP to print the factorial of even numbers in a given number. 2 pts.

Input : 256946

Output : 2, 720, 24, 720

- 2) WAP to find whether the number is an armstrong number or not. 3 pts.

Input 1 : 153

Output : It is an armstrong number

Input 2 : 376

Output : It is not a armstrong number

- 3) Print the following pattern 3 pts.

D C B A

e f g h

F E D C

g h i j

- 4) Print the following pattern 3 pts.

A b C d E

e D c B

B c D

d C

C

- 5) WAP to reverse a number, and put successive number sum into an array and print it. 4 pts.

Input : 45689

Output : 17,14,11,9,4

- 6) WAP to find a number which has numbers on its left is less than or equal to itself. 4 pts.

Input : 456975962

Output : 9

- 7) Take the size of the array from the user. Create two arrays of that size. Initialize all second array elements as zero(0). For the first array take all elements from the user. Check if the elements in the first array are even or not if it's even then replace the value of the second array of that index with 1 and print both the array. 5 pts.

Input : Size : 10

Array 1 Elements : 4 2 3 6 8 7 1 0 9 5

Output : Array 1 Elements : 4 2 3 6 8 7 1 0 9 5

Array 2 Elements : 1 1 0 1 1 0 0 1 0 0

- 8) WAP to find the occurrence of vowels in a given string. 4 pts.

Input : adgtioseobi

Output : a = 1

e = 1

i = 2

o = 2

- 9) WAP to take string from user and convert all even indexes of string to uppercase and odd indexes of a string to lowercase. 4 pts.

Input : dfTbnSrOvryt

Output : DfTbNsRoVrYt

10) WAP to check whether the given string is palindrome or not.

3 pts.

Input 1 : malayalam

Output 1 : It is palindrome String

Input 2 : armstrong

Output 2 : It is not a palindrome String

Input 3: nayan

