

Tutorial 3

ECSE103L (Computational thinking with programming)

1. What will be the output?

a. for x in (340,'abc',340.67,True): Print(type(x))	b. for x in range(2,10,2): print(x+2)
c. for x in range(0,10): x=x+3 print(x)	d. for y in range(5): for x in range(y): print(x)
e. for y in range(5): for x in range(y): print(y)	f. for x in (10,20,50,74,84,66,12,25): print(x) if(x>50): continue print(x+5)
g. for x in (10,20,50,74,84,66,12,25): print(x) if(x>50): break print(x+5)	h. for x in (10,20,50,74,84,66,12,25): print(x) if(x>50): break print(x+5)
i. for x in (10,20,50,74,84,66,12,25): print(x) if(x>50): continue print(x+5)	j. nw = "" for x in 'hello students': nw=x+nw print(nw)

2. Make a flow diagram to check whether a number entered by the users is an Armstrong number or not. 153 is an Armstrong number as $153 = 1^3 + 5^3 + 3^3$ while 125 is not an Armstrong number because $125 \neq 1^3 + 2^3 + 5^3$.
3. Write python program to find all Armstrong number between 1 to 1000.
4. 2520 is the smallest number that can be divided by each of the numbers from 1 to 10 without any remainder. What is the smallest positive number that is divisible by all the numbers from 1 to 20?