

PG-DBDA (Sep 2022 Batch)

Date : 10/10/2022

Time : 10:00 AM to 12:30 PM

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SECTION 1: SOLVE ANY 3.(3\*5=15 MARKS)

1. Write a Python program to remove spaces from string without inbuilt function

Input:

- DBDA BATCH IS THE BEST BATCH

Output:

- DBDABATCHISTHEBESTBATCH

2. Write a Python Program to count the occurrences of a word in a tuple.

Input: CDAC MUMBAI, IS THE BEST CDAC INSTITUTE IN MUMBAI REGION.

OUTPUT:

- MUMBAI: 2
- CDAC: 2
- IS : 1
- THE: 1
- BEST: 1
- IN: 1

3. Write a Program to Print value at Even and Odd list in a list. Create 2 list to store even index values as well as odd index values

INPUT:

- DBDA BATCH

OUTPUT:

- EVEN: D B T H
- ODD: B A A C
- OTHER: D

4. Write a Program to Remove Duplicates from a List

INPUT:

- ABSSBDDDDDDADESR

OUTPUT:

- ABSBDER

5. Combine the values of two dictionaries having same key  
INPUT:

- ({'HARSHAL': 15, 'STANLEY': 10, 'SHRUTI': 5, 'DHIRAJ': 1})
- ({'DHIRAJ': 15, 'STANLEY': 7, 'HARSHAL': 5})

Output:

- ({'HARSHAL': 20, 'SHRUTI': 5, 'STANLEY': 17, 'DHIRAJ': 16})

6. Concatenated string with uncommon characters in Python

Input :

- S1 = "aacdb"
- S2 = "gafd"

Output : "cbgf"

Input :

- S1 = "abcs";
- S2 = "cxzca";

Output : "bsxz"

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## SECTION 2: (15 MARKS)

Write a Person class with an instance variable, **age**, and a constructor that takes an integer, **initialAge**, as a parameter. The constructor must assign **initialAge** to age after confirming the argument passed as **initialAge** is not negative; if a negative argument is passed as **initialAge**, the

constructor should set **age** to 0 and print Age is not valid, setting age to 0.. In addition, you must write the following instance methods:

1. yearPasses() should increase the **age** instance variable by 1.
2. amIOld() should perform the following conditional actions:
  - If **age**<13, print You are young..
  - If and **age**≥13, print You are a teenager..
  - Otherwise, print You are old.

### Sample Input

- 4
- -1
- 10
- 16
- 18

### Sample Output

- Age is not valid, setting age to 0.
- You are young.
- You are young.
- You are young.

- You are a teenager.
- You are a teenager.
- You are old.
- You are old.
- You are old.