

## 1. Find errors, rewrite the program after correcting the code

```
D1=dictionary()
i=1;n=4
while i<=n:
    a=input(" enter name ")
    b=input(" enter age ")
    D1(a)=b
    i=i+1
o=d1.keys[ ]
for i in o:
    print(i, "\t ", 'd1[i]')
```

## 2. Predict the output:

- a. 

```
D1={1:10,2:20,3:30,4:40,5:50}
print(D1.items())
print(D1.keys())
print(D1.values())
```
- b. 

```
D1={1:10,2:20,3:30,4:40,5:50}
D2={5:50,6:60,7:70}
D1.update(D2)
print(D1)
```
- c. 

```
D3 = {"NAME":"UTSAV","AGE":15, "DATA":[160,60]}
del D3["DATA"]
print(D3)
```
- d. 

```
D1={1:10,2:20,3:30,4:40,5:50,6:60,7:70}
print(D1)
D1[6]=67
D1[8]=56
print(len(D1))
D1.clear()
print(D1)
```

3. Write a python function `Fill_dic()` to store a word with its synonym, antonym and usage in a dictionary for as many words as user wants. Write another function `Search_dic()` to locate the details of a given word and display. The function should display “ no such word “ if the given word can't be found in the dictionary.
4. Write a menu driven program to calculate and store the following in a dictionary for the given number(n). The program should be written using recursive functions to execute different options. Finally display the details stored in the dictionary.

Option	Task
1	$n^2$
2	$n!$
3	binary equivalent of the number
4	gcd of n, n+7
5	all the above