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Important functions of Dictionary:

1. Dict():

To create a dictionary

d = dict() \rightarrow It creates empty dictionary d = dict($\{100: "govardhan", 200: "manikanta"\}$) \rightarrow It creates dictionary with specified elements d = dict($\{(100, "govardhan"), (200, "manikanta"), (300, "kartheek")\}$) \rightarrow It creates dictionary with the given

list of tuple elements

2. Len():

Returns the number of items in the dictionary

3. Clear():

To remove all elements from the dictionary

4. Get():

To get the value associated with the key

d.get(key)

If the key is available then returns the corresponding value otherwise returns None. It won't raise any error.

d.get(key, defaultvalue)

If the key is available then returns the corresponding value otherwise returns default value.

Eg:

```
d = {100:"sai", 200:"ram", 300:"raju"}
d[100] → sai
d[400]→KeyError:400
d.get(100) → sai
d.get(400)→None
```

d.get(100,"Guest")→sai d.get(400,"Guest")→Guest

5. Pop():

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d.pop(key)

It removes the entry associated with the specified key and returns the corresponding value. If the specified key is not available then we will get KeyErrror.

```
Eg:

d = {100:"sai", 200:"ravi", 300:"nani"}
d.pop(100)
d → {200:"ravi", 300:"nani"}
d.pop(400) → KeyError:400
```

6. Popitem():

It removes an orbitary item.

```
Eg:

d = {100:"nani", 200:"sai", 300:"babu"}

d → {100:"nani", 200:"sai", 300:"babu"}

d.popitem()

d → {100:"nani", 200:"sai"}
```

7. Keys():

It returns all keys associated with dictionary

8. Values():

It returns all values associated with the dictionary

```
Eg:
d = {100:"nani", 200:"vani", 300:"sani"}
d.values() → dict_values(['nani', 'vani', 'sani'])
for v in d.values():
    print(v) →
nani
vani
sani
```

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9. Items():

It returns list of tuples representing key-value pairs.

```
[(k,v), (k,v), (k,v)]

Eg:

d = {100:"ravi", 200:"nani", 300:"swami"}

for k,v in d.items():

print(k,'---',v) →

100 --- ravi
200 --- nani
```

10. Copy():

To create exactly duplicate dictionary (cloned copy)

```
d1 = d.copy();
```

300 --- swami

11. Setdefault():

d.setdefault(k,v)

If the key is already available then this function returns the corresponding value. If the key is not available then the specified key-value will be added as new item to the dictionary.

Eg:

```
d = {100:"nani", 200:"ravi", 300:"swami"}
d.setdefault(400,'pavan')
d → {100:"nani", 200:"ravi", 300:"swami", 400:"pavan"}
d.setdefault(100,'Guest')
d → nani
```

12. Update():

d.update(x)

All items present in the dictionary x will be added to dictionary d