

```
## Printing a dictionary
details={'name':'dvs','college':'gitam','course':'btech'}
print(details)

{'name': 'dvs', 'college': 'gitam', 'course': 'btech'}

## Printing values by using their key
details={'name':'dvs','college':'gitam','course':'btech'}
print(details['name'])
print(details['college'])
print(details['course'])

dvs
gitam
btech

## Duplicates not allowed
details={'name':'dvs','college':'gitam','course':'btech','course':'btech cse'}
print(details)

{'name': 'dvs', 'college': 'gitam', 'course': 'btech cse'}

## Length of dictionary
details={'name':'dvs','college':'gitam','course':'btech'}
print(len(details))

3

## Printing only keys in a dictionary
details={'name':'dvs','college':'gitam','course':'btech'}
print(details.keys())
## Printing only values
print(details.values())

dict_keys(['name', 'college', 'course'])
dict_values(['dvs', 'gitam', 'btech'])

## Adding an element
details={'name':'dvs','college':'gitam','course':'btech'}
details['marks']='97'
print(details)

{'name': 'dvs', 'college': 'gitam', 'course': 'btech', 'marks': '97'}

## Changing the value of a key
details={'name':'dvs','college':'gitam','course':'btech'}
```

```
details['course']='btechcse'
print(details)

{'name': 'dvs', 'college': 'gitam', 'course': 'btechcse'}

## Finding an element present in a dictionary
details={'name':'dvs','college':'gitam','course':'btech'}
print('name' in details)

True

## Changing values using update
details={'name':'dvs','college':'gitam','course':'btech'}
details.update({'course':'btechcse'})
print(details)

{'name': 'dvs', 'college': 'gitam', 'course': 'btechcse'}

## Remove an item
details={'name':'dvs','college':'gitam','course':'btech'}
details.pop('course')
print(details)
details.popitem()
print(details)

{'name': 'dvs', 'college': 'gitam'}
{'name': 'dvs'}

## Clearing a dictionary
details={'name':'dvs','college':'gitam','course':'btech'}
details.clear()
print(details)

{}

## Printing keys using for loop
details={'name':'dvs','college':'gitam','course':'btech'}
for i in details:
    print(i)

name
college
course

## Printing values using for loop
details={'name':'dvs','college':'gitam','course':'btech'}
for i in details:
    print(details[i])
```

```
dvs  
gitam  
btech
```

```
## Copying a dictionary
```

```
details={'name':'dvs','college':'gitam','course':'btech'}  
sd=details.copy()  
print(sd)
```

```
{'name': 'dvs', 'college': 'gitam', 'course': 'btech'}
```

```
## Printing all values as same
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```
a={'key1','key2','key3'}  
b='values'  
c=dict.fromkeys(a,b)  
print(c)
```

```
{'key2': 'values', 'key1': 'values', 'key3': 'values'}
```

```
## Items in an ordered pair
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```
details={'name':'dvs','college':'gitam','course':'btech'}  
a=details.items()  
print(a)
```

```
dict_items([('name', 'dvs'), ('college', 'gitam'), ('course', 'btech')])
```