

GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B.Tech CE/IT Semester IV
2CEIT404: Python Programming

Practical-5: Dictionary

1. Create and print a dictionary that contains keys a,b,c,d with their values 1,2,3 and 4 respectively using curly bracket syntax and 'dict' in built function.

INPUT:

```
print(21012011074)
d={"a":1, "b":2, "c":3, "d":4, "d":5}
print(d)
```

OUTPUT:

```
21012011074
{'a': 1, 'b': 2, 'c': 3, 'd': 5}
```

2. Using above created dictionary perform following operations

- 1) Write a code to print out the value of a, d, and c.
- 2) Calculate the sum of the value of a,b,c,d and print it.
- 3) Add a new key, value pair (e,5) to the dictionary and print dictionary.

INPUT:

```
print(21012011074)
d={"a":1, "b":2, "c":3, "d":4, "d":5}
print(d['a'],d['d'],d['c'])

# -----
sum=0
for i in d.values():
    sum=sum+i

print(sum)

# -----
d['e']=5
print(d)
```

OUTPUT:

```
21012011074
1 5 3
11
{'a': 1, 'b': 2, 'c': 3, 'd': 5, 'e': 5}
```

3. Filter the dictionary by removing all items with a value greater than 2.

```
d={"a":1, "b":2, "c":3, "d":4, "d":5}
```

INPUT:

```
print(21012011074)
d={"a":1, "b":2, "c":3, "d":4, "d":5}
d_copy=d.copy()
for i in d:
    if d[i]>2:
        del d_copy[i]
print(d_copy)
```

OUTPUT:

```
21012011074
{'a': 1, 'b': 2}
```

4. Print the names which contain the character 'a' from the dictionary containing 2 lists of male and female students given below.

```
{"male": ["Tom", "Charlie", "Harry", "Frank"],  
 "female":["Sarah", "Huda", "Samantha", "Emily", "Elizabeth"]} }
```

INPUT:

```
print(21012011074)  
d={"male": ["Tom", "Charlie", "Harry",  
"Frank"],"female":["Sarah", "Huda", "Samantha", "Emily",  
"Elizabeth"]} }  
for i in d.values():  
    for j in i:  
        if j.find('a')!=-1 or j.find('A')!=-1:  
            print(j)
```

OUTPUT:

```
21012011074  
Charlie  
Harry  
Frank  
Sarah  
Huda  
Samantha  
Elizabeth
```

5. You have 4 films in the dictionary with the age and number of seats available as indicated below. Write a programme to ask for a film and check for the person that he is eligible to watch movie, also check ticket availability and movie availability in the cinema.

```
"War": [3,5],  
"Bourne": [18,5],  
"Gully boy": [15,5],  
"Uri": [12, 5]
```

INPUT:

```
print(21012011074)  
d={"War": [3,5], "Bourne": [18,5], "Gully boy": [15,5], "Uri": [12, 5]}  
global m,a,t,d  
m=input("Enter movie name: ")  
a=int(input("Enter your age: "))  
t=int(input("Enter no of tickets: "))  
  
if m in d:  
    if a>=d[m][0]:  
        if t<=d[m][1]:  
            print("you're Eligible")  
        else:  
            print("only",d[m][1],"tickets available")  
    else:  
        print("You're not Eligible")  
else:  
    print("Movie not available")
```

OUTPUT:

```
21012011074  
Enter movie name: Uri  
Enter your age: 11  
Enter no of tickets: 5  
You're not Eligible
```