

**KARTIK THAKUR**

## **ASSIGNMENT 3**

### **Q1 CONVERT TWO LISTS INTO A DICTIONARY USING ZIP FUNCTION AND DICT() CONSTRUCTOR**

**Keys = ['TEN','TENNEY','THIRTY']**

**VALUES = [10,20,30]**

```
In [4]: key = ['TEN','TENNEY',';THIRTY']  
VALUES = [10,20,30]  
  
k = zip(key,VALUES)  
print(dict(k))  
  
{'TEN': 10, 'TENNEY': 20, ';THIRTY': 30}
```

### **2. Merge two Python dictionaries into one**

**dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30}**

**dict2 = {'Thirty': 30, 'Fourty': 40, 'Fifty': 50}**

In [6]:

```
dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30}
dict2 = {'Thirty': 30, 'Fourty': 40, 'Fifty': 50}

dict1.update(dict2)
print(dict1)

{'Ten': 10, 'Twenty': 20, 'Thirty': 30, 'Fourty': 40, 'Fifty': 50}
```

### 3. Print the value of key 'history' from the below dict

**sampleDict = {"class": {"student": {"name": "Mike", "marks": {"physics": 70, "history": 80}}}}**

In [13]:

```
sampleDict = {"class": {"student": {"name": "Mike", "marks": {"physics": 70, "history": 80}}}}

print(sampleDict["class"]["student"]["marks"]["history"])
```

80

### 4. What is the output of print(2 \* 3 \*\* 3 \* 4)

In [14]:

```
x = 2*3**3*4
print(x)
```

216

### 5. What is the output of the expression print(-18 // 4)

In [15]:

```
print(-18//4)
```

-5

### 6. What is the output of the following code

**x = 6**

**y = 2**

**print(x \*\* y)**

**print(x // y)**

In [ ]:

```
x = 6
y = 2
print(x ** y)
print(x // y)
```

**7. What is the output of the following assignment operator**

**y = 10**

**x = y += 2**

**print(x)**

In [22]:

```
y = 10
x = y + 2
print(x)
```

12

**8. Take values of length and breadth of a rectangle from user and check if it is square or not.**

```
In [30]: height = int(input("enter height\n"))
        breadth = int(input("enter breadth\n"))

        if height==breadth:
            print("its is a square \n")
        else:
            print("it is a reactangle")
```

```
enter height
12
enter breadth
12
its is a square
```

## 9. Take input of age of 3 people by user and determine oldest and youngest among them.

```
In [36]: user1 = int(input("enter your age"))
        user2 = int(input("enter your age"))
        user3 = int(input("enter your age"))

        age = [user1,user2,user3]
        age.sort()

        print(age)
        print(age[0],"is youngest",age[1],"is middle",age[2],"is oldest")
```

```
enter your age234
enter your age32
enter your age3
[3, 32, 234]
3 is youngest 32 is middle 234 is oldest
```

## 10. A student will not be allowed to sit in exam if his/her attendance is less than 75%.Take following input from user

### Number of classes held

**Number of classes attended.**

**And print**

**percentage of class attended**

**Is student is allowed to sit in exam or not.**

```
In [42]: Name = str(input("ENTER YOUR NAME"))
classes_held= int(input("no.of classes held"))
NO_OF_CLASSES = int(input("no  of classes"))

percentage_classes =( NO_OF_CLASSES/classes_held*100)
print(percentage_classes,"%")

if percentage_classes<75:
    print("NOT ALLOWED TO SIT IN EXAM")
else:
    print("YOU ARE ALLOWED TO SIT IN EXAM")

ENTER YOUR NAMECHOMU
no.of classes held100
no  of classes76
76.0 %
YOU ARE ALLOWED TO SIT IN EXAM
```

In [ ]: