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Section - V

Python programming

Q1

Define (a) Set default

(b) From Keys

(a) Set default : The `setdefault()` method returns the value of the item with the specified key. If the key does not exist, insert the key with the specified value.

Syntax :

`dictionary.setdefault (keyname, value)`

Example :

```
car = { "brand" : "Ford", "model" : "Mustang", "year" : 1964 }
```

```
x = car.setdefault ("colour", "white")
```

```
print (x)
```

(b) From Keys :

The `fromkeys()` method returns a dictionary with the specified keys and the specified value.

Syntax :

`dict.fromkeys (keys, value)`

Example :

```
x = ('key1', 'key2', 'key3')
```

```
thisdict = dict.fromkeys (x)
```

```
print (thisdict)
```

Q2

Create a dictionary from user and calculate frequency of characters.


```

St = input ("Enter a string :")
dic = {}
for ch in St :
    if ch in dic :
        dic [ch] += 1
    else :
        dic [ch] = 1
for key in dic :
    print (key, ' : ', dic [key])

```

Q3 Create a dictionary on the basis of Roll number, name and marks of 5 Subject. Also, you have to calculate the sum of 5 subject of a student.

```

n = int (input ("Enter number of students :"))
result = {}
for i in range (n):
    print ("Enter details of Student No.", i+1)
    roll = int (input ("Roll No : "))
    std = input ("Student Name :")
    marks = int (input ("Marks : "))
    result [roll] = [std, marks]

print (result)

```

Above program is for that how can we create a dictionary for 5 student that have their total marks given.

```

d1 = {}
n = int (input ("Enter the number of students :"))
for i in range (n):
    r = int (input ("Enter the roll number :"))
    n = input ("Enter the name of student :")
    print ("Enter the marks of five subject :")

    m1 = int (input())
    m2 = int (input())

```



```
m3 = int (input())
m4 = int (input())
m5 = int (input())
# dictionary shows roll number as key and name and total
  as value.
dl[r] = [n, m1+m2+m3+m4+m5]
print (dl)
p = max (dl, key = dl.get)
print ("The highest marks of : " p)
```

This program is for when the marks of 5 subjects are given.