Dictionary

Dictionary store key, value pair, key and value are separated by: Example 1 $>> a={1:10,2:20,3:30,4:40}$ >>> print a {1: 10, 2: 20, 3: 30, 4: 40} Example 2 >>> b={'one':1,'two':2,'three':3,'four':4} >>>print b {'four': 4, 'three': 3, 'two': 2, 'one': 1} Example 3 To get keys only >>>b.keys() ['four', 'three', 'two', 'one'] Example 4 To get values only >>> b.values() [4, 3, 2, 1] Example 5 To get value against a key >>>b.get('two') Example 6 Dictionary is mutable (editable) To add an item or update dictionary b use method update >>>b. update({'five':5}) >>> print b {'four': 4, 'three': 3, 'five': 5, 'two': 2, 'one': 1} Other methods of dictionary can be checked by using conventional method of help. Example 7 Printing key and values using for loop for i,j in b.iteritems(): print i, print ": ",j

Dictionary Demo

Exercises

- Write a python script to create a dictionary week, the key to be integer and values should be name of the days of the week
- 2. Write a python script to create a dictionary D1, enter details of the students in the form of enrolment and name (See details from the file "Std Record.pdf").
- 3. Write a python script to create a dictionary D2, enter details of the students in the form of enrolment and City (hometown) it belongs to.
- 4. Write a python script to create a dictionary D3, enter details of the students in the form of enrolment and

mobile.

- 5. Write a python script to create a dictionary D4, enter details of the students in the form of enrolment and State it belongs to.
- 6. Write a python script to create a dictionary D5, enter details of the students in the form of enrolment and marks in Phy.Chem, and Maths.
- 7. Write a python script to create a dictionary D6, enter details of the students in the form of enrolment and email-id.
- 8.a. Write a python script to display students' name and email by receiving enrolment number at run time.
- 8.b. Write a python script to print name and enrolment number of the student by receiving email id at run time.
- 8.c. Write a python script to print name and city of the student by mobile number at run time.
- 8.d Write a python script to display students' details who are from same hometown.
- 9. Write a python script to display students' details who are from same State.
- 10. Write a python script to display students' details who have email id on same host (i.e. gmail.com, yahoo.com, rediffmail.com etc.)
- 11. Write a python script to display students' details whose mobile service provider is same(first two bits 94: BSNL, 98: Airtel, 89:Idea, 77:Reliance, 97:Idea, 99:Vodafone, 79:Docomo)
- 12. Write a python script to display students' details who scored highest marks in Phy among all.
- 13. Write a python script to display students' details who scored highest marks in Chem among all
- 14. Write a python script to display students' details who scored highest marks in Maths among all
- 15. Write a python script to display students' details who scored highest average marks in Phy, Chem, and Maths among all.
- 16. Write a python script to create a dictionary **square** to store 10 integers and their square.
- 17. Write a python script to create any data structure named **sroot** to store 10 integers between 20 and 30, their square root.
- 18. Write a python script to create a dictionary odd to store first 50 odd numbers, their log2.
- 19. Write a python to store prime numbers between 50 and 100 along with their digit-sum.
- 20. Write a script to print selected details of the student, asking user to keyin student's name
- 21. Write a script to print all details of the student, asking user to keyin student's Enrollment
- 22. Write a script to print all details of the student, asking user to keyin student's name
- 23. Write a Python program to generate the next 15 leap years starting from a given year. Populate the leap years into a list and display the list.