INDIAN SCHOOL AL WADI AL KABIR

Worksheet, 2024-25

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| **Class: XI** | **SUB: INFORMATICS PRACTICES** | **Date of Completion:** |
| **Worksheet : 6** | **TOPIC: Dictionary**  | 24-10-2024 |

**Section A**

Answer the following:

1. What is dictionary? Give a real time example.

2. Name any 6 characters of a dictionary.

3. Answer the following based on the dictionary

 Shop={‘soap’:25,’watch’:350,’perfume’:500,’paste’:120,’shampoo’:300}

a. Find out the number items in this dictionary

b. Display the price of perfume

c. Change the price of watch to 400

d. Display the list of keys and values separately

e. Show all the items present

f. Add a new item as shirt:900

g. Find out paste in the shop if found display it’s price otherwise display ‘no found’

h. Search for paste in the dictionary

i. Delete the details of shirt from shop

j. How do you clear the contents only from shop

k. Remove the dictionary from the memory.

**Section B**

1. Find the output of the following codes:

D1 = {1 : 10, 2 : 20, 3 : 30, 4 : 40, 5 : 50}

print(D1.keys())

print(D1.values())

print(D1.items())

D1 = {1 : 10, 2 : 20, 3 : 30, 4 : 40}

D2 = {5 : 50, 6 : 60, 7 : 70}

print(D1.update(D2))

print(D1)

D3 = {1 : 100, 2 : 150, 3 : 200}

D4 = {4 : 250, 2 : 175, 5 : 400, 3 : 225}

print(D3.update(D4))

print(D3)

Comp = { 'Dell' : 25000, 'HP' : 28500, 'Lenovo' : 23250 }

NewComp = { 'Acer' : 17300, 'Lenovo' : 24500, 'Apple' : 37400 }

Comp.update(NewComp)

print(Comp)

TV = { 'Ikon' : 22000 ,'Samsung' : 29300, 'LG' : 27800, 'Sony' : 38000, 'Philips' : 24000}

print(TV.keys())

print(TV.values())

del TV['Sony']

print(TV)

TV.pop('LG')

print(TV)

print(TV.clear())

print(TV)

TV = { 'Ikon': 22000 ,'Samsung' : 29300, 'LG' : 27800, 'Sony' : 38000, 'Philips' : 24000 }

print('Sony' in TV)

print('TCL' in TV)

print('Philips' not in TV)

print('SAMSUNG' not in TV)

Comp = { 'Dell' : 25000, 'HP' : 28500, 'Lenovo' : 23250, 'Acer' : 17300, 'Apple' : 37400}

print(len(Comp))

del(Comp['Acer'])

print(Comp)

Comp['Asus'] = 29500

Comp.pop('HP')

print(len(Comp))

1. Give the output for the following.

 d1={10:'hello',12:"dear",9:"friend",15:"study",7:"in", 11:"class"}

a) print(d1.values())

b) print(list(d1.values())

c) print(d1[9])

d) print(d1[10]+d1[9])

e) 15 in d1

f) ”study” in d1

g) d1.get(25,”not found”)

h) for i in d1:

 if d1[i]==”friend”:

 print(i)

1. del d1[12]

 print(d1)

j) d1.pop(7)

 print(d1)

3. Guess the output.

 fur={'chair':35,'table':250,'lamp':65,'stand':23,'sofa':350}

a. print(max(fur))

b. print(min(fur))

c. L=list(fur.values())

 print(max(L))

d. for i in fur:

 print(i)

e. for i in fur:

 print(fur[i])

f. print(fur['table']+fur['stand'])

g. for i in fur:

 if i=='chair':

 print(fur[i]+10)

h. for i in fur:

 if i=='stand':

 print(i+'sofa')

i. x=list(fur.items())

 print(x[2])

j. print(fur.popitem())

k. fur.update({'table':275,'bed':500})

 print(fur)

l. fur['lamp']=70

 print(fur)

1. Answer the following based the dictionary d1 given

 d1={'a':10,'c':30,'e':50 ,'b':20,'d':40}

a. Display the keys of the dictionary in ascending order.

b. Find the maximum value among the keys.

c. Find the minimum value among the values.

d. Find out the sum of values of keys ‘a’ and ‘e’.

e. Find the sum of all the values.

**Section C**

1. Write a program that repeatedly asks the user to enter product names and prices. Store all of them in a dictionary whose keys are product names and values are prices. And also write a code to search an item from the dictionary.
2. Write a program that repeatedly asks the user to enter airline names and airfare. Store all of them in a dictionary whose keys airline names and values are airfare. And also write a code to calculate and display the average airfare of all airlines.
3. Write a program that repeatedly asks the user to enter employee names and salaries. Store all of them in a dictionary whose keys are employee names and values are salaries. And also write a code to count the number of employees getting salary more than 5000.