DICTIONARY CONCEPT

INPUT :-

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# concept 'dictionary'.
# ex:- dict={key1:value1,key2:value2}
blader = {1:'tyson',2:'kai',4:'max',3:'ray',5:'diachi',6:'hilari'}
print("dictionary: ",blader,type(blader),   id(blader))
print("best blader: ",blader[1],"\nstrongest blader: ",blader.get(2))
# get() ===> takes only key.
print("unknown: ",blader.get(10,'not found'),"\tknown: ",blader.get(6,'not
found'))
blader[6]='madoka'
print("updated dictionary: ",blader,"\tlength of the dictionary:
",len(blader))
blader['world']='beyblade'
print("items added to dict: ",blader)
student =
{'mounav':'it','keerthi':'civil','sasi':'it1','kumar':'ece','dhruthi':'eie'}
print("student dict: ",student,"\tstudent type: ",type(student))
print("length of the student: ",len(student))
# delete item from dict
student.pop('dhruthi') # takes only one argument.
print("decresed student: ",student,"\tlength of the student: ",len(student))
del student['keerthi']
print(student,"\t",len(student))
college = {1:'vrsec',2:'pvp',3:'lrbr',4:'vit'}
bit = {'tyson':'dragoon','kai':'dranzer','max':'dracial','ray':'drigger'}
print(college,bit)
college.clear()
print("cleared college: ",college)
del bit
print("deleted")
# nested dictionary.
student1 =
{'mounav':{'roll':22,'branch':'it'},'mohith':{'roll':46,'branch':'ece'}}
print("nested student: ",student1,type(student1))
print("accesing the items: ",student1['mounav'],"\tmounav rollno:
",student1['mounav']['roll'])
print("accesing nested dict: ",student1['mohith']['branch'])
student2 = student1.copy()
print("student2 dict: ",student2,type(student2))
# using fromkeys()===> takes two arguments.
keyset=('key1','key2','key3')
dictionary1 = dict.fromkeys(keyset)
print("without value: ",dictionary1)
dictionary2 = dict.fromkeys(keyset,50)
print("with value: ",dictionary2)
# using items()===> returns key-value pair.
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print("key-value pairs: ",blader.items())
# using key()===> it returns all the keys from the dictionary
print("keys of the blader are: ",blader.keys())
# using values()===> it returns values of the dictionary.
print("values of the blader are: ",blader.values())
# using setdefault()
print("student dictionary: ",student)
x = student.setdefault('mounav')
print("branch is: ",x)
student.setdefault('dhruthi')
print("dictionary student: ",student)
student.setdefault("vamsi","eie")
print("added student dictionary: ",student)
print("updated student info: ",student)
student.update({'dhruthi':'eie'})
print("updated student info: ",student)
```

OUTPUT :-

C:\USERS\PRAVE\PYCHARMPROJECTS\SAI45\VENV\SCRIPTS\PYTHON.EXE "C:/USERS/PRAVE/PYCHARMPROJECTS/SAI45/DICTIONARY CONCEPT.PY"

DICTIONARY: {1: 'TYSON', 2: 'KAI', 4: 'MAX', 3: 'RAY', 5: 'DIACHI', 6: 'HILARI'} <CLASS 'DICT'> 1921600515648

BEST BLADER: TYSON

STRONGEST BLADER: KAI

UNKNOWN: NOT FOUND KNOWN: HILARI

UPDATED DICTIONARY: {1: 'TYSON', 2: 'KAI', 4: 'MAX', 3: 'RAY', 5: 'DIACHI', 6: 'MADOKA'} LENGTH OF THE DICTIONARY: 6

ITEMS ADDED TO DICT: {1: 'TYSON', 2: 'KAI', 4: 'MAX', 3: 'RAY', 5: 'DIACHI', 6: 'MADOKA', 'WORLD': 'BEYBLADE'}

STUDENT DICT: {'MOUNAV': 'IT', 'KEERTHI': 'CIVIL', 'SASI': 'IT1', 'KUMAR': 'ECE', 'DHRUTHI': 'EIE'} STUDENT TYPE: <CLASS 'DICT'>

LENGTH OF THE STUDENT: 5

DECRESED STUDENT: {'MOUNAV': 'IT', 'KEERTHI': 'CIVIL', 'SASI': 'IT1', 'KUMAR': 'ECE'} LENGTH OF THE STUDENT: 4

{'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE'} 3

{1: 'VRSEC', 2: 'PVP', 3: 'LRBR', 4: 'VIT'} {'TYSON': 'DRAGOON', 'KAI': 'DRANZER', 'MAX': 'DRACIAL', 'RAY': 'DRIGGER'}

CLEARED COLLEGE: {}

DELETED

NESTED STUDENT: {'MOUNAV': {'ROLL': 22, 'BRANCH': 'IT'}, 'MOHITH': {'ROLL': 46, 'BRANCH': 'ECE'}} <CLASS 'DICT'>

ACCESING THE ITEMS: {'ROLL': 22, 'BRANCH': 'IT'} MOUNAV ROLLNO: 22

ACCESING NESTED DICT: ECE

STUDENT2 DICT: {'MOUNAV': {'ROLL': 22, 'BRANCH': 'IT'}, 'MOHITH': {'ROLL': 46, 'BRANCH': 'ECE'}} <CLASS 'DICT'>

WITHOUT VALUE: {'KEY1': NONE, 'KEY2': NONE, 'KEY3': NONE}

WITH VALUE: {'KEY1': 50, 'KEY2': 50, 'KEY3': 50}

KEY-VALUE PAIRS: DICT_ITEMS([(1, 'TYSON'), (2, 'KAI'), (4, 'MAX'), (3, 'RAY'), (5, 'DIACHI'), (6, 'MADOKA'), ('WORLD', 'BEYBLADE')])

KEYS OF THE BLADER ARE: DICT_KEYS([1, 2, 4, 3, 5, 6, 'WORLD'])

VALUES OF THE BLADER ARE: DICT_VALUES(['TYSON', 'KAI', 'MAX', 'RAY', 'DIACHI', 'MADOKA', 'BEYBLADE'])

STUDENT DICTIONARY: {'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE'}

BRANCH IS: IT

DICTIONARY STUDENT: {'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE', 'DHRUTHI': NONE}

ADDED STUDENT DICTIONARY: {'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE', 'DHRUTHI': NONE, 'VAMSI': 'EIE'}

UPDATED STUDENT INFO: {'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE', 'DHRUTHI': NONE, 'VAMSI': 'EIE'}

UPDATED STUDENT INFO: {'MOUNAV': 'IT', 'SASI': 'IT1', 'KUMAR': 'ECE', 'DHRUTHI': 'EIE', 'VAMSI': 'EIE'}

PROCESS FINISHED WITH EXIT CODE 0