**Environment:- Window 7**

**Tool:-IDLE Python(3.7.0 64bit)**

**Objective:- Program perform all operation on dictionary using python**

Code:-

students={'name':'ziyaulhaq','age':20,'roll\_no':174200191,'branch':'bca'}#1

print(students)

print('roll\_no=',students['roll\_no'])#2

print(students)

students['marks']=50#3

print(students)

del students['age']#4

print(students)

name=students.pop('name')#5

print(name)

print(students.get('age','is not present in dictionary'))#6

print(students.popitem())#7

#students.clear()

students.update({'age':25})#8

print(students)

students.setdefault('sex',0)#9

print(students)

print(students.values())#10

print(students.keys())#11

print(students.items())#12

student1=students.copy()#13

print('student1=',student1)

r=student1#14

print(r)

**Output**

**====================== RESTART: E:/python/dictionary.py ======================**

**{'name': 'ziyaulhaq', 'age': 20, 'roll\_no': 174200191, 'branch': 'bca'}**

**roll\_no= 174200191**

**{'name': 'ziyaulhaq', 'age': 20, 'roll\_no': 174200191, 'branch': 'bca'}**

**{'name': 'ziyaulhaq', 'age': 20, 'roll\_no': 174200191, 'branch': 'bca', 'marks': 50}**

**{'name': 'ziyaulhaq', 'roll\_no': 174200191, 'branch': 'bca', 'marks': 50}**

**ziyaulhaq**

**is not present in dictionary**

**('marks', 50)**

**{'roll\_no': 174200191, 'branch': 'bca', 'age': 25}**

**{'roll\_no': 174200191, 'branch': 'bca', 'age': 25, 'sex': 0}**

**dict\_values([174200191, 'bca', 25, 0])**

**dict\_keys(['roll\_no', 'branch', 'age', 'sex'])**

**dict\_items([('roll\_no', 174200191), ('branch', 'bca'), ('age', 25), ('sex', 0)])**

**student1= {'roll\_no': 174200191, 'branch': 'bca', 'age': 25, 'sex': 0}**

**{'roll\_no': 174200191, 'branch': 'bca', 'age': 25, 'sex': 0}**

**>>>**