*program to add new item in dictionary*print("Dictionary")  
car={ "brand":"ford",  
 "model":"Mustang",  
 "year":1964}  
x = car.values()  
print("Elements in the Dictionary: ",x)  
car["color"]="red"  
print("Updated elements: ",x)  
  
*#program to reflect changes in the dictionary*print("Dictionary")  
car={ "brand":"ford",  
 "model":"Mustang",  
 "year":1964}  
x = car.items()  
print("Elements in the Dictionary: ",x)  
car["color"]="red"  
car["year"] = 2020  
print("Updated elements: ",x)  
  
*#Program to check the value*thisdict={ "brand":"ford",  
 "model":"Mustang",  
 "year":1964}  
if "model" in thisdict:  
 print("yes,'model' is one of the keys in thisdict dictionary")  
  
*#program to check the value*thisdict={ "brand":"ford",  
 "model":"Mustang",  
 "year":1964}  
if "brand" in thisdict:  
 print("yes,'brand' is one of the keys in thisdict dictionary")  
  
*# program*print("Dictionary")  
car={ "brand":"ford",  
 "model":"Mustang",  
 "year":1964}  
x = car.items()  
print("Elements in the Dictionary: ",x)  
car["color"]="red"  
car.update({"year":2022})  
print("Updated elements: ",x)  
  
*#program to pop items*student={"Name":"Ram",  
 "std":"fifth",  
 "Admission-No":2013}  
x=student.items()  
print("Given elements are: ",x)  
print("Pop process start")  
student.pop("Admission-No")  
print("Result:",x)  
student["Admission-No"]=2013  
print(student["Admission-No"])  
print("Before popping process: ",student)  
student.popitem()  
print("After popping process: ",student)  
  
*#program using del keyword*student={"Name":"Ram",  
 "std":"fifth",  
 "Admission-No":2013}  
x=student.items()  
print("Given elements are: ",x)  
print("Del process start")  
del student["std"]  
print("Result: ",student)  
print("clear process start")  
student.clear()  
print("After clear process: ", student)  
  
*#program using for loop*student={"Name":"Ram",  
 "std":"fifth",  
 "Admission-No":2013}  
print("Elements in the list: ")  
for x in student:  
 print(student[x])  
  
*#program using values in dictionary*student={"Name":"Ram",  
 "std":"fifth",  
 "Admission-No":2013}  
print("Elements in the list: ")  
for x in student.values() :  
 print(x)  
  
*#program using keys in dictionary*student={"Name":"Ram",  
 "std":"fifth",  
 "Admission-No":2013}  
print("Elements in the list: ")  
for x in student.keys() :  
 print(x)  
  
*#program using both keys and values in dictionary*student={"Name-":"Ram",  
 "std-":"fifth",  
 "Admission-No-":2013}  
print("Elements in the list: ")  
for x,y in student.items() :  
 print(x,y)  
  
*#program using copy method*student={"Name-":"Ram",  
 "std-":"fifth",  
 "Admission-No-":2013}  
print("Elements in the list: ")  
student1=student.copy()  
print(student1)  
  
*#program using dict method*student={"Name-":"Ram",  
 "std-":"fifth",

"Admission-No-":2013}  
print("Elements in the list: ")  
student1=dict(student)  
print(student)  
  
*#program using nested dictionary*myfamily = {  
 "child1":{  
 "name":"uma",  
 "age":8  
 },  
 "child2":{  
 "name":"latha",  
 "age": 4  
 }  
 }  
print(myfamily)  
  
*#program for nested dictionary*child1:{  
 "name":"uma",  
 "age":8  
 }  
child2:{  
 "name":"latha",  
 "age": 4  
 }  
myfamily ={  
 "child1":child1 ,  
 "child2":child2  
}  
print(myfamily)  
  
*#program using if statement*a = 33  
b = 200  
  
if b > a:  
 print("b is greater than a" ,b)

*program using elif statement*a=30  
b=30  
  
if b>a :  
 print("Bi greater",b)  
elif b == a:  
 print("a and b are equal")  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
*#program using else statement*a = 90  
b = 34  
  
if b > a :  
 print("b is greater")  
elif b == a:  
 print("a and b are equal")  
else:  
 print("a is greater")  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
*#program using oneline ifelse statement*a = 2  
b = 330, print("A") if a > b else print("B")  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#program using and operator*a = 200  
b = 33  
c = 500  
if a > b and c > a :  
 print("Both conditions are true")  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#program using or operator*a = 200  
b = 33  
c = 500  
if a > b or c > a:  
 print ("one of the condition satisfied")  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")  
  
*#program using nested if statement*x = 41  
if x > 10:  
 print("number greater than 10: ",x)  
if x > 20:  
 print("number greater than 20: ",x)  
else:  
 print ("but not above than 20: ",x)  
print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")