

Program 5.1: Take the value of two tuples and swap their values without using any other variable.

```
t1=input("enter the value of first tuple : ")
t2=input("enter the value of second tuple : ")
```

```
print("\nbefore swapiing")
print("tuple1:",t1)
print("tuple2:",t2)
```

```
t1,t2=t2,t1
print("\nafter swapiing")
print("tuple1:",t1)
print("tuple2:",t2)
```

Output:

```
enter the value of first tuple : apple
enter the value of second tuple : banana
```

```
before swapiing
tuple1: apple
tuple2: banana
```

```
after swapiing
tuple1: banana
tuple2: apple
```

Program 5.2: Implement following string translation using Dictionary:

'hello how are you' --> 'jgnnq jqy ctg aqw'

```
str="hello how are you"
#using dictionary
dict1={104:106,101:103,108:110,111:113,119:121,97:99,114:116,121:97,117:119}
```

```
print("before translation : ")
print(str)
```

```
print("after translation : ")
print(str.translate(dict1))
```

Output:

```
before translation :
hello how are you
after translation :
jgnnq jqy ctg aqw
```

Program 5.3:To generate and print a dictionary that contains a number (between 1 and n) in the form (x, x*x).

```
a= int(input("enter number upto which u want to print dictionary : "))
Dict = {}
for x in range(1,a+1):
    Dict[x]=x*x
print(Dict)
```

Output:

```
enter number upto which u want to print dictionary : 5
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
```

Program 5.4 :To create and display all combinations of letters, selecting each letter from a different key in a dictionary.

Sample data : {'1':['a','b'], '2':['c','d']}

Expected Output:

```
ac
ad
bc
bd
```

```
dict={'1':['a','b'],'2':['c','d']}
```

```
for i in dict['1']:
    for j in dict['2']:
        print(i+j)
```

Output:

```
ac
ad
bc
bd
```

Program 5.5: To check whether a given string is Pangram or not? A string is Pangram, if it contains all alphabet characters upper or lower i.e.(a-z or A-Z) at least once.

Example: "The quick brown fox jumps over the lazy dog!!!"

```
def is_palgram(sen):
    x="abcdefghijklmnopqrstuvwxyz"
    for i in x:
        if i not in sen:
            return False
    return True
sen="The quick brown fox jumps over the lazy dog!!!"

if(is_palgram(sen) == True):
    print("string is palgram")
else:
    print("string is not palgram")
```

Output:

string is palgram