

Set4 lab Exercises

Q1. Write a program that prints all unique combinations of 1, 2 and 3.

Q2. Write a program that generates the following output using a **for** loop:

```
A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z,  
z,y,x,w,v,u,t,s,r,q,p,o,n,m,l,k,j,i,h,g,f,e,d,c,b,a,
```

Q3. Rewrite the following program using for loop.

```
lst = ['desert', 'dessert', 'to', 'too', 'lose', 'loose']  
s = 'Mumbai'  
i = 0  
while i < len(lst) :  
    if i > 3 :  
        break  
    else :  
        print(i, lst[i], s[i])  
        i += 1
```

Q4. A five-digit number is entered through the keyboard. Write a program to obtain the reversed number and to determine whether the original and reversed numbers are equal or not.

Q5. Write a program to print out all Armstrong numbers between 1 and 500. If sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number. For example, $153 = (1 * 1 * 1) + (5 * 5 * 5) + (3 * 3 * 3)$.