**Loops and conditions**

**If - Basic authentication program**

*#!/usr/bin/python*

*#Basic authentication program*

*authdict = {'user1': 'user1@123', 'user2': 'user2@123', 'user3': 'user3@123'}*

*user = raw\_input("Enter your username: ")*

*password = raw\_input("Enter your password: ")*

*if authdict[user] == password:*

*print "Authentication Success!"*

*else:*

*print "Authentication Failure!"*

**c) while**

*#!/usr/bin/python*

*i = 0*

*numbers = []*

*while i < 6:*

*print "At the top i is %d" % i*

*numbers.append(i)*

*i = i + 1*

*print "Numbers now: ", numbers*

*print "At the bottom i is %d" % i*

*print "The numbers: "*

*for num in numbers:*

*print num*

**>> Pattern printing**

*#!/usr/bin/python*

*line=1 #this is the initial variable*

*while line <= 10 :*

*pos = 1*

*while pos < line:*

*#This print will add space after printing the value*

*print pos,*

*#increment the value of pos by one*

*pos += 1*

*else:*

*#This print will add newline after printing the value*

*print pos*

*#increment the value of line by one*

*line += 1*

**Break and continue**

*#!/usr/bin/python*

*# Prints out only odd numbers - 1,3,5,7,9*

*for x in range(10):*

*# Check if x is even*

*if x >= 5:*

*print "skipping"*

*continue*

*print(x)*

*print "Exited!"*

**Read user input**

*#!/usr/bin/python*

*# Reading input from user*

*name = raw\_input("Please enter your name: ")*

*print type(name)*

*print "Your name is: %s" %(name)*