```
# Program to demonstrate if/else statements.
 1
 2
 3
      # This program compares two strings.
      # Get a password from the user.
 4
 5
 6
      password = input('Enter the password: ')
 7
 8
      # Determine whether the correct password was entered.
 9
      if password == 'prospero': # Other comparison symbols: <, >, <=, =>, !=
           print('Password accepted.')
10
11
      else:
12
           print('Sorry, that is the wrong password.')
           print('Please try again.')
13
```

Enter the password: notsure Sorry, that is the wrong password. Please try again.

Enter the password: prospero Password accepted.

```
1
      # This program determines whether a bank customer qualifies for a loan.
 2
 3
      min_salary = 30000.0 # The minimum annual salary
 4
      min_years = 2
                             # The minimum years on the job
 5
 6
      # Get the customer's annual salary.
 7
      salary = eval(input('Enter your annual salary: '))
 8
 9
      # Get the number of years on the current job.
10
      years on job = eval(input('Enter the number of ' + 'years employed: '))
11
12
      # Determine whether the customer qualifies.
13
      if salary >= min_salary or years_on_job >= min_years: # Logical operator: or, and
14
             print('You qualify for the loan.')
15
      else:
16
             print('You do not qualify for this loan.')
17
      Enter your annual salary: 90000
      Enter the number of years employed: 1
      You qualify for the loan.
      Enter your annual salary: 29000
      Enter the number of years employed: 1
      You do not qualify for this loan.
      Program examples using logical operators . . .
      score = 90
      if (score \geq 80) and (score \leq 93):
        print("You got an B")
      answer = 'v'
      if (answer == 'y') or (answer == 'Y'):
        print("You have answered yes – correct answer!")
```

```
1
      # This program demonstrates statements if/elif/else
 2
 3
      code = input("Type a 2-letter state code that starts with letter C: ")
 4
      if code == 'CA':
 5
              print("CA is California")
 6
      elif code == 'CO':
 7
              print("CO is Colorado")
 8
      elif code == 'CT':
 9
              print("CT is Connecticut")
10
      else:
              print("Invalid. Please enter a valid state code that starts with letter C")
11
12
      print("Thank You!")
13
      Type a 2-letter state code that starts with letter C: CA
      CA is California
      Thank You!
      Type a 2-letter state code that starts with letter C: NY
      Invalid. Please enter a valid state code that starts with letter C
      Thank You!
      # Implementing case insensitive
      string1 = "Hello"
      string2 = "hello"
      if (string1.lower() == string2.lower()):
        print ("The strings are the same.")
      else:
         print ("The strings are not the same.")
      Generating random numbers
      import random
      x = random.randint(0,5) \# generate number between 0 to 5
      print ("Random number is = ", x)
```