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| **Program 01** |
| **Output** |
| a and b are 5 and 3  a divided by b is 1.6666666666666667  a divided by b but rounded to two places is 1.67  a divided by b using integer division is 1  a modulus b is 2 |
| **Source Code** |
| def main():  a = 5  b = 3  c = a/b  print('a and b are {} and {}'.format(a,b))  print('a divided by b is {}'.format(c))  c = round(a/b, 2)  print('a divided by b but rounded to two places is {}'.format(c))  c = a//b  print('a divided by b using integer division is {}'.format(c))  c = a%b  print('a modulus b is {}'.format(c))  if \_\_name\_\_ == "\_\_main\_\_": main() |

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| **Program 02** |
| **Output** |
| First a tuple!  <class 'tuple'> ('one', 'two', 'three', 'four')  tuple sorted: ['four', 'one', 'three', 'two']  Next a list.  <class 'list'> [3.3, 1.1, 2.2]  list with two new values inserted! [0.0, 3.3, 1.1, 2.2, 4.4]  list sorted: [0.0, 1.1, 2.2, 3.3, 4.4]  And last but not least, a dictionary!  <class 'dict'> {3333333: 'Carol Carolson', 2222222: 'Bill Billson', 1111111: 'Ann Annson'}  dictionary sorted:  1111111 Ann Annson  2222222 Bill Billson  3333333 Carol Carolson |
| **Source Code** |
| def main():  a = ('one','two','three','four')  b = [3.3,1.1,2.2]  c = {3333333: 'Carol Carolson', 2222222: 'Bill Billson', 1111111: 'Ann Annson'}  print('First a tuple!')  print(type(a),a)  print('tuple sorted: {}\n'.format(sorted(a)))    print('Next a list.')  print(type(b),b)  b.insert(0,0.0)  b.append(4.4)  print('list with two new values inserted! {}'.format(b))  print('list sorted: {}\n'.format(sorted(b)))  print('And last but not least, a dictionary!')  print(type(c),c)  print('dictionary sorted:')  for k in sorted(c.keys()):  print('{} {}'.format(k, c[k]))  if \_\_name\_\_ == "\_\_main\_\_": main() |

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| **Program 03** |
| **Output** |
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| **Source Code** |
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| **Program 04** |
| **Output** |
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| **Source Code** |
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| **Program 05** |
| **Output** |
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| **Source Code** |
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