In [1]:	<pre>n=5 while n&gt;0:    print(n)</pre>
	<pre>print(n) n=n-1 print('Blastoff!') print(n)  5 4 3</pre>
	2 1 Blastoff! 0 for i in[5, 4, 3, 2, 1]:
	<pre>print(i) print('Blastoff!')  5 4 3 2</pre>
In [3]:	<pre>1 Blastoff!  friends=['Joseph', 'Glenn', 'Sally'] for friend in friends:     print('Happy New Year:', friend) print('Done!')</pre>
In [4]:	Happy New Year: Joseph Happy New Year: Glenn Happy New Year: Sally Done!  print('Before')
	<pre>for thing in [9,41,12,3,74,15]:     print(thing) print('After')  Before 9 41</pre>
ı	12 3 74 15 After
	<pre>largest_so_far=-1 print('Before', largest_so_far) for the_num in [9,41,12,3,74,15]:     if the_num&gt;largest_so_far:         largest_so_far=the_num     print(largest_so_far, the_num) print('After', largest_so_far)</pre>
	Before -1 9 9 41 41 41 12 41 3 74 74
In [6]:	74 15 After 74  zork=0 print('Before',zork) for thing in [9,41,12,3,74,15]:     zork=zork+1
ı	print(zork, thing) print('After', zork)  Before 0 1 9 2 41 3 12
In [7]:	4 3 5 74 6 15 After 6  zork=0 print('Before',zork)
	<pre>for thing in [9,41,12,3,74,15]:     zork=zork+thing     print(zork,thing) print('After',zork)</pre> Before 0 9 9
	50 41 62 12 65 3 139 74 154 15 After 154
	<pre>count=0 sum=0 print('Before',count,sum) for value in [9,41,12,3,74,15]:     count=count+1     sum=sum+value</pre>
	<pre>print(count, sum, value) print('After', count, sum, sum/count)  Before 0 0 1 9 9 2 50 41 3 62 12 4 65 2</pre>
In [9]:	4 65 3 5 139 74 6 154 15 After 6 154 25.666666666668  print('Before') for value in [9,41,12,3,74,15]:     if value 20:
	<pre>if value&gt;20:     print('Large number', value) print('After')  Before Large number 41 Large number 74</pre>
In [10]:	<pre>found=False print('Before', found) for value in [9,41,12,3,74,15]:     if value==3:         found=True     print(found, value)</pre>
ı	<pre>print(found, value) print('After', found)  Before False False 9 False 41 False 12 True 3</pre>
In [11]:	True 74 True 15 After True  largest_so_far=-1 print('Before', largest_so_far)
	<pre>for the_num in [9,41,12,3,74,15]:     if the_num&gt;largest_so_far:         largest_so_far=the_num     print(largest_so_far, the_num) print('After', largest_so_far)</pre> Before -1
	9 9 41 41 41 12 41 3 74 74 74 15 After 74
	<pre>smallest_so_far=-1 print('Before', smallest_so_far) for the_num in [9,41,12,3,74,15]:     if the_num<smallest_so_far: pre="" print(smallest_so_far,="" smallest_so_far="the_num" the_num)<=""></smallest_so_far:></pre>
	<pre>print('After', smallest_so_far)  Before -1 -1 9 -1 41 -1 12 -1 3</pre>
In [15]:	-1 74 -1 15 After -1  smallest=None print('Before') for value in [9,41,12,3,74,15]:
	<pre>if smallest is None:     smallest=value elif value<smallest: pre="" print('after',="" print(smallest,="" smallest="value" smallest)<="" value)=""></smallest:></pre>
	Before 9 9 9 41 9 12 3 3 74 3 15
In [16]:	After 3  smallest=None  print('Before')  for value in [3,41,12,9,74,15]:     if smallest is None:         smallest=value
	<pre>elif value<smallest: 3="" 41<="" before="" pre="" print('after',="" print(smallest,="" smallest="value" smallest)="" value)=""></smallest:></pre>
ı	3 12 3 9 3 74 3 15 After 3 str1="Hello"
	str2='there' bob=str1+str2 print(bob)  Hellothere  name=input('Enter:')
In [21]:	Enter:Chunk  print(name) Chunk
In [23]:	<pre>apple=input('Enter:') Enter:100  x=int(apple)-10 print(x)</pre>
In [24]:	<pre>fruit='banana' letter=fruit[1] print(letter) a</pre>
	<pre>x=3 w=fruit[x-1] print(w) n</pre> fruit='banana'
In [27]:	<pre>print(len(fruit)) 6  fruit='banana' index=0 while index<len(fruit):< pre=""></len(fruit):<></pre>
	<pre>letter=fruit[index] print(index,letter) index=index+1</pre> 0 b 1 a 2 n
In [28]:	3 a 4 n 5 a  fruit='banana' for letter in fruit:     print(letter)
	b a n a n a n a n a n a n a n a n a n a
In [29]:	<pre>word='banana' count=0 for letter in word:    if letter=='a':       count=count+1 print(count)</pre>
In [30]:	3  s='Monty Python' print(s[0:4])  Mont
In [32]:	<pre>print(s[6:7])  P  print(s[6:20])  Python</pre>
In [33]:	a='Hello' b=a+'There' print(b) HelloThere
In [35]:	<pre>c=a+''+'There' print(c)  HelloThere  if word=='banana':     print('All right, bananas.') if word&lt;'banana':</pre>
	<pre>if word&lt;'banana':     print('Your word,'+word+',comes before banana.') elif word&gt;'banana':     print('Your word,'+word+',comes after banana.') else:     print('All right,bananas.')</pre> All right,bananas.
In [36]:	All right, bananas.  All right, bananas.  greet='Hello Bob'  zap=greet.lower() print(zap)  hello bob
In [37]:	<pre>print(greet) Hello Bob print('Hi There'.lower())</pre>
In [42]:	hi there  line='Please have a nice day' line.startswith('Please')  True
In [43]: Out[43]: In [44]:	<pre>line.startswith('p') False  data='From stephen.marquard@uct.ac.za Sat Jan 5 09:14:16 2008' atnos=data find('@')</pre>
In [47]:	<pre>atpos=data.find('@') print(atpos)  21  sppos=data.find(' ', atpos) print(sppos)</pre>
In [48]:	31 host=data[atpos+1 : sppos] print(host) uct.ac.za
In [ ]:	