lists

May 8, 2023

[16]:
```
odds = [1, 3, 5, 7]
print ('odds are:', odds)
```

```
odds are: [1, 3, 5, 7]
```

[4]:
```
print('first element:', odds[0])
print ('last element:', odds[3])
print('"-1" element:', odds[-1])
```

```
first element: 1
last element: 7
"-1" element: 7
```

[5]:
```
names = ['Curie', 'Darwing', 'Turing'] #Typo in Darwin's name

print('names is originally:', names)

names[1] = 'Darwin' # Correct the name

print ('final value of names:', names)
```

```
names is originally: ['Curie', 'Darwing', 'Turing']
final value of names: ['Curie', 'Darwin', 'Turing']
```

[6]:
```
#name = 'Darwin'
#name[0] = 'd'
```

[17]:
```
odds.append(11)
print('odds after adding a value:', odds)
```

```
odds after adding a value: [1, 3, 5, 7, 11]
```

[18]:
```
removed_element = odds.pop(0)
print('odds after removing the first element:', odds)
print('removed_element:', removed_element)
```

```
odds after removing the first element: [3, 5, 7, 11]
removed_element: 1
```

[19]:
```
odds.reverse()
print('odds after reversing:', odds)
```

```
odds after reversing: [11, 7, 5, 3]
```

[20]:
```
odds = [3, 5, 7]
primes = odds
primes.append(2)
print('primes:', primes)
print ('odds:', odds)
```

```
primes: [3, 5, 7, 2]
odds: [3, 5, 7, 2]
```

[21]:
```
odds = [3,5,7]
primes = list(odds)
primes.append(2)
print('prmes:', primes)
print('odds:', odds)
```

```
prmes: [3, 5, 7, 2]
odds: [3, 5, 7]
```

[23]:
```
binomial_name = "Drosophila melanogaster"
group = binomial_name[0:10]
print('group:', group)

species = binomial_name[11:23]
print('species:', species)

chromosomes = ['X', 'Y', '2', '3', '4']
autosomes = chromosomes[2:5]
print('autosomes:', autosomes)

last = chromosomes[-1]
print('last:', last)
```

```
group: Drosophila
species: melanogaster
autosomes: ['2', '3', '4']
last: 4
```

[24]:
```
date = 'Monday 4 January 2023'
day = date[0:6]
print('Using 0 to begin range:', day)
day = date[:6]
print('Omitting beginning index:', day)
```

```
Using 0 to begin range: Monday
Omitting beginning index: Monday
```

[25]:
```
months = ['jan', 'feb', 'mar', 'apr', 'may', 'jun', 'jul', 'aug', 'sep', 'oct',␣
 ↪'nov', 'dec']
sond = months[8:12]
print ('With known last posistion:', sond)

sond = months[8:len(months)]
print('Using len() to get last entry:', sond)
sond = months[8:]
print('Omitting ending index:', sond)
```

```
With known last posistion: ['sep', 'oct', 'nov', 'dec']
Using len() to get last entry: ['sep', 'oct', 'nov', 'dec']
Omitting ending index: ['sep', 'oct', 'nov', 'dec']
```

[ ]:
```

```