python_for_loops_workbook_answer

September 17, 2020

1 PYTHON FOR LOOP WORKBOOK ANSWERS

Remember, there are different ways to write code to get the same answer, so your answer can be correct and different to the answer example!

If you feel stuck and want some in person help, then have a look at the events page to join in a workshop https://swamphen.co.uk/events.

```python
In [ ]: # write a for loop to times the numbers 1-10 by 2 and print them out

        for i in range(1, 11):
            print(i * 2)
```

```python
In [ ]: # set up a string with your name in it
        # print out each letter individually

        name = 'tamara'

        for i in range(len(name)):
            print(name[i])
```

```python
In [ ]: # print out alternate letters from your name string

        for i in range(0, len(name), 2):
            print(name[i])
```

```python
In [ ]: # create a tuple of a mix of integers and floats
        # use a for loop and if statements to change the integers into floats
        # and the floats into integers
        # create an empty list to put your answers in

        mix = (1, 3, 6.5, 3.3, 8)
        swap = []

        for item in mix:
            if type(item) == int:
                swap.append(float(item))
            else:
```

```
            swap.append(int(item))

        print(swap)
```

In [ ]: ```python
for the numbers 1-10 print out if they are odd or even

for i in (1,2,3,4,5,6,7,8,9,10):
    if i % 2 == 0:
        print('even')
    else:
        print('odd')
```

In [ ]: ```python
# calculate all the possible rolls for 2 d6 die and sort the values numerically

total = []

for i in (1,2,3,4,5,6):
    for j in (1,2,3,4,5,6):
        total.append(i + j)

total.sort()
print(total)
```

In [ ]: ```python
remove duplicates from your list of die roll totals

sorted = []

for item in total:
    if item not in sorted:
        sorted.append(item)

print(sorted)
```

In [ ]: ```python
# fizz buzz
# list numbers 1 - 100 and print it out with
# numbers divisible by 3 being replaced by fizz
# numbers divisible by 5 being replaced by buzz

for i in range(1, 101):
    if i % 15 == 0:
        print('fizzbuzz')
    elif i % 5 == 0:
        print('buzz')
    elif i % 3 == 0:
        print('fizz')
    else:
        print(i)
```