

For-Loops in Python

Section 1: For-Loops in Python

Section 1.1: Output of loops

Please write the **output** to the following loops:

for numbers in range(1,10,1):

```
    print(numbers)
```

for numbers in range(1,10,2):

```
    print(numbers)
```

for numbers in range(12,20,3):

```
    print(numbers)
```

for numbers in range(4,5,1):

```
    print(numbers)
```

Section 1.2: Making code for given output

Please write the **for-loop code** that was used to make the following output:

1, 2,3,4,5,6,7,8,9,10

1,3,5,7,9,11

4,7,10,13,16,19

Section 1.3: Correcting mistakes

The following bits of code will not work when typed into Python. Please **re-write code correctly** for following for-loops: (hint: look at the for-loops in section 2.1 and see what the differences are)

For numbers in range(1,10,2):

```
print(numbers)
```

for numbers in range(1,9,1):

```
print numbers
```

for numbers in range(1,9,1):

```
print(i)
```

```
for i in range(1,9,4):  
    print(i)
```

```
for i in range(1,10,5):  
    print(i)
```

```
for numbers in range(1,9,1)  
    print (numbers)
```

Section 1.4: Advanced problems

Write a loop to do the following. Put your input (the loop) and the output into the space below each question

Print all the odd numbers between 1 and 10

Print all the even numbers between 2 and 20

Print all the even numbers between 2 and 20 in reverse order

Print all the multiples of 6 between 0 and 100

Print all the odd numbers between 6 and 50

Print all the even numbers between 14 and 60

Print all the multiples of 13 between 50 and 100

Print all the odd numbers between 1 and 20 in reverse order (i.e. 19, 17... 1)

Print all the even numbers between 30 and 40 in reverse order

Print all the multiples of 7 between 0 and 100 in reverse order

Print the numbers: 0.5, 1.0, 1.5, 2.0, 2.5, 3, 3.5, 4, and 4.5 to the screen. (Hint: use the dividing command (/) somewhere in the loop)

Print the numbers 0.333, 0.666, 0.1, 1.333 and 1.6667, 2.0, 2.3335, 2.666665 and 3 to the screen

