Python Programming

Homework 4

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Problem 1

```
def rnd_gen(x0, n):
```

```
print([i for i in rnd])
    print(list(rnd_gen(1, 3)))

if __name__ == "__main__":
    main()
```

Terminal Session for problem 1:

[22695478, 2156045615, 2867233980, 71484141, 2911408402, 2613937339, 1153135800, 420428313, 1503962414, 4187371143] [22695478, 2156045615, 2867233980]

Problem 2

```
def gen rndtup(m):
```

```
print((element[0] % 101, element[1] % 100))

print()

# Part D Code
print("Part D:")
ans = rnd_gen(1, -1)
elements_less_than_100 = map(lambda x: x % 100, ans)
elements_divisible_by_13 = filter(lambda x: x % 13 == 0,
elements_less_than_100)
final_lst = itertools.islice(elements_divisible_by_13, 0, 10)
for element in final_lst:
    print(element)

print()

# Part E Code
print("Part E:")
ans = gen_rndtup(10)
elements_that_total_5 = filter(lambda x: (x[0] + x[1]) >= 5, ans)
final_lst = itertools.islice(elements_that_total_5, 0, 10)
for element in final_lst:
    print(element)

if __name__ == "__main__":
    main()
```

Terminal Session for problem 2

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(0			1)			
(2			9)			
(0			3)			
(0			1)			
(4			7)			
	2			5				
(ó			7)			
(2			3)			
(0			5)			
(4			7)			
		r						
(4			7)			
(ó			7)			
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		r						
		9						
		5						
		8						
		2						
		4						
(2	3			7	ó)	
		9						
(1	6			4	3)	

```
13
39
Part E:
(2, 9)
(2, 5)
(6, 7)
(2, 3)
(4, 7)
(4, 7)
```