

Practice Question #5

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SUBJECT: PROBLEM SOLVING AND PROGRAMMING

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SLOT: D11+D12+D13

1.

```
n = int(input("Enter any number : "))
i=1
for i in range (1,n+1,1):
    if(n%i == 0):
        print(i)
```

```
Enter any number : 12
1
2
3
4
6
12
```

2.

```
name = input("Enter your name : ")
age = int(input("Enter your age in 2020 : "))
n = 100-age
year = 2020+n
print("Hello",name,"\nYou will turn a 100 years old in ",year)
```

```
Enter your name : Jill
Enter your age in 2020 : 40
Hello Jill
You will turn a 100 years old in  2080
```

3.

```
a = [1,1,2,3,4,8,13,21,34,55,89]
i = 0
for i in range (len(a)):
    if(a[i]<=5):
        print(a[i])
```

```
1
1
2
3
4
```

4.

```
n=[]
for x in range(2000, 3201):
    if (x%7==0) and (x%5>0):
        n.append(str(x))
print (' ','.join(n))
```

2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 2163, 2177, 2184, 2191, 2198, 2212, 2219, 2226, 2233, 2247, 2254, 2261, 2268, 2282, 2289, 2296, 2303, 2317, 2324, 2331, 2338, 2352, 2359, 2366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443, 2457, 2464, 2471, 2478, 2492, 2499, 2506, 2513, 2527, 2534, 2541, 2548, 2562, 2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674, 2681, 2688, 2702, 2709, 2716, 2723, 2737, 2744, 2751, 2758, 2772, 2779, 2786, 2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898, 2912, 2919, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 3017, 3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 3101, 3108, 3122, 3129, 3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199

5.

```
lines = []
while True:
    s = input("Enter Lines :")
    if s:
        lines.append(s.upper())
    else:
        break
for sentence in lines:
    print(sentence)
```

```
Enter Lines :Hello world
Enter Lines :
HELLO WORLD
```

6.

```
items = []
for i in range(100, 401):
    s = str(i)
    if (int(s[0])%2==0) and (int(s[1])%2==0) and (int(s[2])%2==0):
        items.append(s)
print( ",".join(items))
```

200, 202, 204, 206, 208, 220, 222, 224, 226, 228, 240, 242, 244, 246, 248, 260, 262, 264, 266, 268, 280, 282, 284, 286, 288, 400