

Question 1

```
In [9]: l = list()
        for i in range(10):
            n = int(input())
            if n%2 == 0:
                l.append(n)
        print(l)
```

```
2
3
4
5
6
7
18
13
15
16
[2, 4, 6, 18, 16]
```

Question 3

```
In [14]: d = dict()
         n = int(input())
         for i in range(1,n+1):
             d[i] = i*i
         print(d)
```

```
4
{1: 1, 2: 4, 3: 9, 4: 16}
```

Question 4

```
In [1]: pos = {"x":0,"y":0}
num = int(input())

for _ in range (num):
    command = input().split(" ")
    if command[0] == "UP":
        pos["y"] += int(command[1])
    if command[0] == "DOWN":
        pos["y"] -= int(command[1])
    if command[0] == "LEFT":
        pos["x"] -= int(command[1])
    if command[0] == "RIGHT":
        pos["x"] += int(command[1])

print(int(round((pos["x"]**2 + pos["y"]**2)**0.5)))
```

```
4
UP 5
DOWN 3
LEFT 3
RIGHT 2
2
```

In []: