

Define a function that accepts a number and returns whether the number is even or odd.

```
def num(n):  
  
    if n%2==0:  
        print("number is even")  
  
    else:  
        print("number is odd")
```

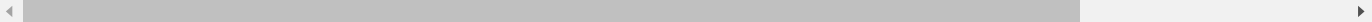
```
num(7)  
  
    number is odd
```

```
num(2)  
  
    number is even
```

Define a function to create and print a list where the values are square of numbers between 1 and 30 (both included).

```
def square():  
    l=list()  
  
    for i in range(1,31):  
        l.append(i**2)  
    print(l)
```

```
square()  
  
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400, 441, 484, 529, 576, 6
```



Define a function, shut\_down, that takes one parameter. Then, if the shut\_down function receives a value equal to "yes", it should print "Shutting down". Alternatively, if value is equal to "no", then the function should print "Shutdown aborted". Finally, if shut\_down gets anything other than those inputs, the function should print "Sorry".

```
def shut_down(s):  
  
    if s=='yes':  
        print("shutting down")  
  
    elif s=='no':  
        print("shutdown aborted")  
  
    else:  
        print("sorry")
```

```
shut_down("yes")  
  
    shutting down
```

Define a function called "by\_three" that takes a parameter called number. If that number is divisible by 3, "by\_three" should print the cube of the number. Otherwise, by\_three should print False.

```
def by_three(n):
```

```
    if n%3==0:  
        print(n*n*n)
```

```
    else:  
        pass
```

```
by_three(9)
```

```
729
```

```
by_three(5)
```

Define a function that takes a list and prints a new list with no duplicate elements given in the first list.

```
def unique_list(l):
```

```
    x = []  
    for a in l:  
        if a not in x:  
            x.append(a)  
    print(x)
```

```
unique_list([3,4,5,3,4,5,7,9])
```

```
[3, 4, 5, 7, 9]
```