## #Week 1

#1

```
def q1_sum(list_el):
    total = 0
    for el in list_el:
        try:
            if el % 2 == 0:
                 total += el

        except TypeError:
        for x in el:
            if x % 2 == 0:
                 total += x
```

#2

```
def move_vow(line):
    vow = 'aeiouAEIOU'
    final_vow = ''
    final_cos = ''
    for x in line:
        if x in vow:
            final_vow += x
        else:
            final_cos += x
        final = final_vow + final_cos
    return final
```

#3

```
guests = { 'Randy': 'Germany', 'Karla': 'France', 'Wendy': 'Japan', 'Norman': 'England', 'Sam': 'Argentina'}

def greetings(name):
   if name in guests:
     return f"Hi! I'm {name} and I'm from {guests[name]}."
   else:
     return f"Hi, I'm {name}."
```

#4

```
class Memories:

def __init__(self, name, age=0, salary=0):

self.name = name
self.age = age
```

#Week 1 1

```
self.salary = salary

def remember(self, info):
    match info:

    case "name":
        return self.name
    case "salary":
        return self.salary
    case "age":
        return self.age
```

#5

```
class Test:
   def __init__(self, subject, cor_answ=[], per=''):
       self.subject = subject
       self.cor_answ = cor_answ
       self.per = per
class Student:
   def __init__(self, name):
       self.name = name
   def take_test(self, other, stud_answ=[]):
       cor_st_answ = 0
       for i, x in enumerate(stud_answ):
           if x == other.cor_answ[i]:
               cor_st_answ += 1
       final_grade = (cor_st_answ * 100) / len(other.cor_answ)
       passing_graade = other.per.split("%")
       passing_grade = int(passing_graade[0])
       if stud_answ == other.cor_answ or final_grade >= passing_grade:
           print(f'{self.name} passed the Chemistry test with the score {final_grade}%')
       else:
           print(f'{self.name} failed the Maths test!')
```

#6

```
def histogram(line, type):
    final = [''] * len(line)
    for i, x in enumerate(line):
        final[i] = (type * x)
        print(final[i])
```

#7

#Week 1 2

```
def filter_star(the_dict, nr_stars):
    new_dict = {}
    for x in the_dict:
        if len(the_dict[x]) == nr_stars:
            new_dict[x] = '*' * nr_stars

if len(new_dict) == 0:
        return 'No result found!'

else:
    return new_dict
```

#Week 1 3