Obligatorisk innlevering 5: Oppgave 1

Oppgave 1.1

Hva blir utskriften?

```
1        a = 4
2        b = 2
3        c = (a + b) / b
4
5        print(c ** 2)
```

SVAR:

a = 4
b = 2
c = (2+4) / 2 = 6 / 2 = 3

print = **9**

Oppgave 1.2

Hva blir utskriften?

```
1        numbers = []
2
3        for x in range(5):
4            numbers.append(x)
5
6        print(numbers)
7
8
9        numbers = []
10
11       for x in range(5):
12           numbers.insert(x, 0)
13
14       print(numbers)
```

SVAR:

numbers = **[0,1,2,3,4]**

numbers = **[0, 0, 0, ,0]**

Oppgave 1.3

Hva blir utskriften?

```python
class Course:
    def __init__(self, name, number_of_students, study_points=10):
        self.name = name
        self.number_of_students = number_of_students
        self.study_points = study_points

    def get_description(self):
        return f"The course {self.name} has {self.number_of_students} students" \
            f" and {self.study_points} study points."


programmering_1 = Course("Programmering 1", 215)

print(programmering_1.get_description())
```

SVAR:

Print = **"The course Programming 1 has 215 students and 10 study points."**

Oppgave 1.4

Hva blir utskriften?

```python
animals_in_zoo = {"honey badger": 2, "ape": 15, "zebra": 6, "giraffe": 4}

for animal in animals_in_zoo:
    if animals_in_zoo[animal] < 5:
        print(animal.title())
```

SVAR:

Print =

"Honey Badger"

"Giraffe"

Oppgave 1.5

Hva blir utskriften?

```
1    numbers = [5, 2, 3, 2, 4, 1]
2
3    sum_of_numbers = 0
4    for number in numbers:
5        if number <= 2:
6            sum_of_numbers += number
7        else:
8            sum_of_numbers += 1
9
10   print(sum_of_numbers)
```

SVAR:

1+2+1+2+1+1 = 8

Print = **8**

Oppgave 1.6

Hva blir utskriften?

```
1    animals = ["honey badger", "giraffe", "ape", "zebra"]
2
3    animals[1] = "elephant"
4
5    animals.sort()
6
7    animals = animals[:2]
8
9    for animal in animals:
10       print(animal)
```

SVAR:

print =

"ape"

"elephant"

Oppgave 1.7

Hva blir utskriften?

```
1    animals = ["Elephant", "Dog", "Cat", "Gorilla", "Dodo"]
2
3    animals = animals[1:3]
4
5    animals[0] = "Alligator"
6
7    animals.sort(reverse=True)
8
9    print(animals)
```

SVAR:

print = ["Cat", "Alligator"]

Oppgave 1.8

Hva blir utskriften?

```
1    shopping_list = {}
2
3
4    def add_item(item_name, quantity=1):
5        if item_name in shopping_list.keys():
6            shopping_list[item_name] += quantity
7        else:
8            shopping_list[item_name] = quantity
9
10
11   add_item("Bread", 2)
12   add_item("Milk")
13   add_item("Milk", 2)
14   add_item("Bread", 2)
15   add_item("Eggs")
16   print(shopping_list)
```

SVAR:

{"Bread" : 4, "Milk" : 3, "Eggs" : 1}

Oppgave 1.9

Hva blir utskriften?

```
1   x = 0
2
3   for i in range(0, 5, 2):
4       x += i
5
6   print(x)
7
8   x = 0
9
10  for i in range(0, 5):
11      x += i
12
13  print(x)
```

SVAR:

print = **6**

print = **10**

Oppgave 1.10

Hva blir utskriften?

```
1   a = 5
2   b = 2
3   c = 0
4
5   c += a ** b
6   print(c)
7
8   c += a % b
9   print(c)
10
11  c += a - b * 2
12  print(c)
13
14  c //= b
15  print(c)
```

SVAR:

print = **25**

print = **26**

print = **27**

print = **13**

Oppgave 1.11

Hva blir utskriften?

```python
class Game:
    def __init__(self, name, genre, age_rating=18):
        self.name = name
        self.genre = genre
        self.age_rating = age_rating

    def description(self):
        return f"The game {self.name} is of the genre {self.genre} and has an age rating of {self.age_rating}"


game1 = Game("Hades", "Rogue-lite", 12)
game2 = Game("God of War", "Action")
print(game1.age_rating)
print(game2.description())
```

SVAR:

print = **12**

print = **"The game God of War is of the genre Action and has a age rating of 18"**

Oppgave 1.12

Hva blir utskriften?

```python
randomList = [1, 'a', 2, 'b', 3]
result = 0

for entry in randomList:
    try:
        result += int(entry)
    except ValueError:
        print("A ValueError occurred.")

print(f"The sum is: {result}")
```

SVAR:

print =

"A ValueError occurred."

"A ValueError occurred."

"The sum is: 6"