

Python

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Last Name: _____ First Name: _____

Student number: _____ Name of course: _____

Exercise 1

```
a = "5"
b = 3
print("I want ", a, "puppies and " + b, "kats!")
```

Exercise 2

```
print(f' {(41 + 200) % 24}:00 ')
```

Exercise 3

```
a = input("Give a number: ") #user gave in 7
print(a)
```

Exercise 4

```
def exercise4():
    a = input("what's your firstname? ") #user gave in "Jef"
    b = int(input("what's your age? ")) #user gave in 18

    print(a + b)

exercise4()
```

Exercise 5

```
def exercise5():
    amount = 99
    a = amount // 15
    b = amount % 15
    c = a // 3
    d = b % 3
    print(a, b, c, d)

exercise5()
```

Exercise 6

```
def exercise6():
    answer = input('Enter a string: ') #user gave in "I like programming!"
    print(len(answer))

exercise6()
```

Exercise 7

```
def exercise7():
    score = int(input()) #user gave in 10
    if score <= 30:
        letter_grade = 'Max score'
    elif score >= 15:
        letter_grade = 'You just passed!'
    else:
        letter_grade = 'failed!'
    print(letter_grade)

exercise7()
```

Exercise 8

```
def exercise8():
    number = int(input()) #user gave in 10
    if number == 10:
        print("A")
    if number < 30:
        print("B")
    if number > 5:
        print("C")
    if number < 11:
        print("D")
    if number < 4:
        print("E")

exercise8()
```

Exercise 9

#In Python the precedence order is first NOT then AND and in last OR.

```
def exercise9():
    a = True
    b = False
    c = False

    if a or b and c:
        print("A")
    else:
        print("B")

exercise9()
```

Exercise 10

#In Python the precedence order is first NOT then AND and in last OR.

```
def exercise10():
    a = True
    b = False
    c = False

    if not a or b:
        print (1)
    elif not a or not b and c:
        print (2)
    elif not a or b or not b and a:
        print (3)
    else:
        print (4)

exercise10()
```

Exercise 11

```
def exercise11():
    count = 1
    for i in range(3):
        count += 1
    print (count)

exercise11()
```

Exercise 12

```
def exercise12():
    for i in range(3,10):
        j = i + 2
        print(j)

exercise12()
```

Exercise 13

```
def exercise13():
    a = int(input()) #user gave in 0
    b = int(input()) #user gave in 10
    total = 0
    while(a <= b):
        total += a
        a += 1
    print(total)
```

Exercise 14

```
def exercise14():
    array = [1, 6.0, "9", 1.34, 32]
    for i in array:
        if isinstance(i, int): #isinstance checkt of de type van "i" gelijk is
                                #aan de meegeven type
            print(i)
```

Exercise 15

```
def exercise15():
    a = []
    for i in range(5):
        a.append(i)

    b = []
    for i in range(7):
        if i in a and i%2 == 0:
            b.append(i)
    print(b)
```

exercise15()

#Bovenste coden kan op een beteren manier geprogrammeerd worden door gebruik te maken van list comprehension

```
#data = [x for x in range(5)]
#temp = [x for x in range(7) if x in data and x%2==0]
#print(temp)
```

Exercise 16

```
def exercise16():
    temp = [ 'Geeks', 'for', 'Geeks' ]
    array = []
    for i in temp:
        array.append(i[0].upper()) #upper() returnd a copy of the string to
                                   uppercase
    print(array)

exercise16()
```

Exercise 17

```
def exercise17():
    n=5;
    for i in range(n):
        for j in range(i):
            print ( '* ', end="")
            print ( ' ')

    for i in range(n,0,-1):
        for j in range(i):
            print ( '* ', end="")
            print ( ' ')

exercise17()
```

Exercise 18

```
def exercise18():
    array = []
    for i in range(3):
        sArray = []
        for k in range(3):
            sArray.append(i)

        array.append(sArray)

    print(array)

exercise18()
```

Exercise 19

```
def exercise19(array2D, getal):  
    for i in array2D:  
        for k in i:  
            if k % getal == 0:  
                print(k)  
  
a = [[1,3,4], [12,9,45]]  
b = 3  
exercise19(a, b)
```

Exercise 20

```
def exercise20(b):  
    newArray = []  
    for i in b:  
        sArray = []  
        for k in i:  
            if (k != 10):  
                sArray.append(k)  
        newArray.append(sArray)  
  
    print(newArray)  
  
a = [[1,2,4,58 ],  
      [3,10,5,12],  
      [3,4,10,52]]  
  
exercise20(a)
```