t2

January 25, 2022

1 Strengjablús

```python
s = "Þorvaldur Tumi Baldursson"
print(f'1. Fyrsta bilið er í indexi nr. {s.find(" ")}')
print(f'2. Fornafnið: {s[0:s.find(" ")]}')
print(f'3. Lengd nafnsins: {len(s)}')
print(f'4. Er "r" í nafninu: {"r" in s.lower()}')
print(f'5. Stórir stafir: {s.upper()}')
```

    1. Fyrsta bilið er í indexi nr. 9
    2. Fornafnið: Þorvaldur
    3. Lengd nafnsins: 25
    4. Er "r" í nafninu: True
    5. Stórir stafir: ÞORVALDUR TUMI BALDURSSON

2 Listablús

```python
def haus(L):
    return L[0]

def hali(L):
    end = len(L)
    h = L[1:end]
    return h

L = [1,2,3,4,5]
print(haus(L))
print(hali(L))

def setjafremst(L,g):
    L.insert(0,g)

test = [4,3,2,1]
setjafremst(test,5)
print(test)

def oddalisti(n):
```

```
    a = []
    for i in range(1,2*n,2):
        a.append(i)
    return a
print(oddalisti(9))
```

```
1
[2, 3, 4, 5]
[5, 4, 3, 2, 1]
[1, 3, 5, 7, 9, 11, 13, 15, 17]
```

3 Prímtölur < 20

```
[ ]:  S = set(range(2,21,2))
      M3 = set(range(3,21,3))
      M5 = set(range(5,21,5))
      M6 = set(S & M3)
      X = set(range(2,21))
      P = set(X-(S|M3|M5|M6))

      print(S)
      print(M3)
      print(M5)
      print(M6)
      print(X)
      print(P)
```

```
{2, 4, 6, 8, 10, 12, 14, 16, 18, 20}
{3, 6, 9, 12, 15, 18}
{10, 20, 5, 15}
{18, 12, 6}
{2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20}
{17, 19, 7, 11, 13}
```

4 3F

4.1 viðsnúningur lista

```
[ ]:  def hausaftast(L):
          L.append(L.pop(0))

      test = [1,2,3,4,5]
      hausaftast(test)
      print(test)

      def snuavid(L):
```

```
    snuinn = []
    for i in L:
        snuinn.insert(0,i)

    return snuinn

testSnu = [1,2,3,4,5]
print(testSnu)
print(snuavid(testSnu))
```

```
[2, 3, 4, 5, 1]
[1, 2, 3, 4, 5]
[5, 4, 3, 2, 1]
```

5 4

5.1 orðaleikur

```
[ ]: def telja(s):
    a = s.split()
    out = []
    for i in a:
        out.append(len(i))

    return out

strengur = "Halló ég heiti Þorvaldur Tumi"
print(telja(strengur))

def hropa(s):
    print(s.upper()+"!!")

hropa("hallo")

def storir(c):
    if c == c.upper():
        return True
    else:
        return False

print(storir("halló ég Heiti Tumi"))
```

```
[5, 2, 5, 9, 4]
HALLO!!
False
```