**Økt 1:**

**Oppstart Python:**

Installer programmet: <https://www.spyder-ide.org/>

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Hva kaller vi de ulike rutene?

|  |  |
| --- | --- |
| Inntastingsfelt/Editor | Variabelutforsker |
| Konsoll |

Husk at vi i Python:

* bruker desimalpunktum i stedet for desimalkomma
* skriver **print**() for å skrive ut resultatet
* skiller mellom variabler og tekst med komma i **print**(). Vi bruker da hermetegn, ", rundt tekst
* bruker \* som gangetegn, / som deletegn og \*\* som potens

Ctrl + enter = kjør kode

Oppgave 1:

Skriv print(Hello world!) Det blir en feil – må prøve igjen med anførselstegn.   
Se på feilmelding.

Skriv en kommentar: # En liten hilsen. Trykk kjør, og se at det ikke kommer med.   
Må ha med forklaring til eksamen.

Oppgave 2:

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Med anførselstegn blir det tekst, altså 2+2, og uten blir det regnestykke.

Oppgave 3:

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Oppgave 4:

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Oppgave 5:

Variabler. De forskjellige regneartene: pluss, minus, gange, deling, potens.

Skriv følgende:

a = 5

b = 2

print(a+b)

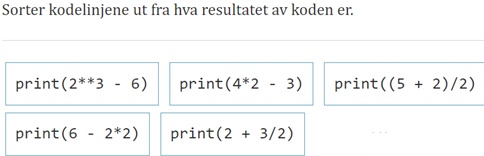
print(a-b)

print(a\*b)

print(a/b)

print(a\*\*b)

Oppgave 6:



![Et bilde som inneholder bord

Automatisk generert beskrivelse](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAAAAAAAD/4RCyRXhpZgAATU0AKgAAAAgAAodpAAQAAAABAAAIMuocAAcAAAgMAAAAJgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCAkAQAAgAAABQAABCUkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAA6hwABwAACAwAAAh0AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Økt 2:**

1. Skriv i regelboka:

**Husk at vi i Python:**

* ber brukeren av programmet om å legge inn opplysninger ved å bruke **input()**
* gjør om input fra brukeren til desimaltall ved å bruke **float**()
* gjør om input fra brukeren til heltall ved å bruke **int**()
* bruker **if**-setninger for å kontrollere hvilken kode som utføres når ulike betingelser gjelder
* kan bruke **elif**(else if) når en **if**-setning har mer enn to betingelser

**I Python bruker vi disse logiske operatorene:**

* 10 == 10               Lik
* 12 != 11                Ikke lik
* 12 > 10                 Større enn
* 10 >= 5                 Større enn eller lik
* 10 < 11                 Mindre enn
* a < b and a > c    Begge betingelsene er sanne
* a < b or a > c       Én av betingelsene sanne

1. Skriv av programmet under i Python.

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

*Kun mellomrom fordi det ser fint ut, f.eks. a = …*

*Må være komma mellom variabler og tekst. (mellom argumenter)*

*Vi tilordner det som blir skrevet inn til variabelen a.*

*Må ha med «a = int(a)» for å omgjøre tekst til heltall.*

*Float? Desimaltall blir greit å skrive inn.*

*Kun if, if+elif ubegrenset, if+else, if+elif ubegrenset+else.*

1. Endre i det samme programmet som over.

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

1. Skriv av bildet.

Et bilde som inneholder tekst

Automatisk generert beskrivelse

*Et bilde som inneholder tekst

Automatisk generert beskrivelse*

*Float fordi tallet skal være et desimaltall.*

*Int fordi desimaltallet skal ganges med et av heltallene 10, 100 eller 1000.*

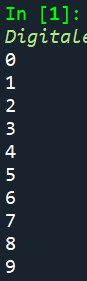
*Hva skjer hvis vi ganger med et annet tall? Svar: Ganges med 1000.*

**Økt 3:**

[**Python:**](https://aunivers.lokus.no/fagpakker/realfag/matematikk-1p/velkommen/ressurser/kapitteloppgaver-i-programmering/laeringsloep/1-tall/for-loekke)

**Husk at vi i Python:**

* bruker en **for**-løkke når programmet eller vi vet hvor mange gjentagelser vi ønsker (f.eks. rente over 4 år)

Oppgave 1:

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Alltid for-løkke: «for n in range():»

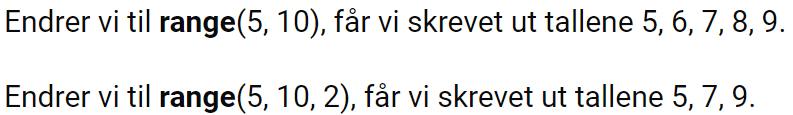
n står for variabel, hvilke tall som skal skrives.

Oppgave 2:

Et bilde som inneholder tekst

Automatisk generert beskrivelse

1. 



Det første tallet er det vi starter med («fra og med»), det andre tallet er det tallet vi ikke tar med («til, men ikke med»), og det tredje er hvor mange vi hopper over (steglengden). **Husk kolon!**

«Range» lager ei tallrekke. «For hvert element (fra og med 5 til og med 9 i dette eksempelet) i denne tallrekka, lagre verdien i variabelen n.»

Et bilde som inneholder tekst, elektronikk, tastatur

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

**Økt 4:**

**Husk at vi i Python:**

* **while**-løkke brukes når en oppgave skal utføres så lenge en påstand er sann, altså når vi ikke vet hvor mange ganger vi skal gjenta operasjonen på forhånd.

Et bilde som inneholder tekst

Automatisk generert beskrivelseEt bilde som inneholder tekst

Automatisk generert beskrivelse

Startverdien til a er null. (tilordning)

Så lenge a er mindre enn 4, (a er mindre enn 4 er en betingelse)

skriv ut tallet (uttrykk)

oppdater tallet med 1 (variabeloppdatering/ny tilordning)

Oppgave 1 (skriv sammen, og snakk om):

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst, enhet, måler

Automatisk generert beskrivelse

*En variabel må alltid tilordnes en verdi.*

*Derfor må x ha en startverdi for å komme i gang, siden jeg vil starte med 2 (og oppdaterer før print) må x være lik 0.*

Så lenge x er mindre enn 10:

Øk x med 2

Skriv ut tallet (x)

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Ekstraoppgave: Skriv ut de positive oddetallene fra 10 til 20.

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Ekstra-ekstra: Skriv ut de positive oddetallene fra 20 til 10 (motsatt vei).

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Hvordan kan vi gjøre det med en for-løkke? (Elevene skriver selv først)

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Oppgave 2: (prøv selv, og så gjennomgå sammen)

Bruk en while-løkke til å regne ut summen av de fem første naturlige tallene, det vil si legg sammen 1+2+3+4+5.

**Et bilde som inneholder tekst, innendørs

Automatisk generert beskrivelse**

*(sum bør byttes til delsum)*

Sum og i må ha noen startverdier for å komme i gang, og her er de lik 0.

Så lenge i er mindre enn 5:

Øk i med 1 (0+1=1)

Øk sum med i (0+1=1)

**Eksempelsett H21, del 1:**

**Et bilde som inneholder tekst

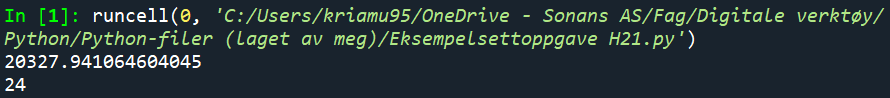
Automatisk generert beskrivelse**

Vi har en startverdi på 10 000, som øker med 3% per år (vekstfaktor 1,03).

While-kommandoen gjør at det som står i linje 7 og 8 vil gjentas så lenge verdien holder seg under 20 000.

Print(verdi) vil gi verdien av beløpet for hvert år fram til verdien passerer 20 000 (20 000 og over tas ikke med).

Print(år) vil gi tallene 0, 1, 2, osv. og være antall år som har gått. Denne stopper etter verdien passerer 20 000, og da vil det printes i konsollen.



**Økt 5:**

[Python:](https://aunivers.lokus.no/fagpakker/realfag/matematikk-1p/velkommen/ressurser/kapitteloppgaver-i-programmering/laeringsloep/1-tall/regneoperasjoner)

**Husk at vi i Python:**

* bruker desimalpunktum i stedet for desimalkomma
* ber brukeren av programmet om å legge inn opplysninger ved å bruke input()
* gjør om input fra brukeren til desimaltall ved å bruke **float**()
* gjør om input fra brukeren til heltall ved å bruke **int**()
* skriver **print**() for å skrive ut resultatet
* skiller mellom variabler og tekst med komma i **print**(). Vi bruker da hermetegn, ", rundt tekst
* bruker \* som gangetegn, / som deletegn og \*\* som potens

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse

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Automatisk generert beskrivelse

Et bilde som inneholder tekst

Automatisk generert beskrivelse