CONDITIONAL EXECUTION

Choice – Yes or No
Notes

- **Timetable**

- **How to work with the course material?**
CONDITIONAL STEPS

if question :
    statement

if x > 0 :
    print('Positive')
COMPARISON OPERATORS

<    less than
<=   less than or equal
==   equal to
>=   greater than or equal
>    greater than
!=   not equal

Remember:  = is used for assignment
LOGICAL OPERATORS

and

or

not

if x > 0 and x < 10:
    print('x is greater than 0 and less than 10')

if n%2 == 0 or n%3 == 0:
    print('the number is divisible by 2 or 3')

if not (n%2 == 0):
    if n%2 != 0:
        print('the number is odd')
ONE-WAY DECISIONS

if question:
    if x > 0:
        print('Positive')
        print('Greater than 0')
INDENTATION

• Increase indent after an if statement (do not forget about : )
• Maintain indent to indicate the scope of the block (which lines are affected by the if)
• Reduce indent back to the level of the if statement to indicate the end of the block

• 4 spaces

    if x > 0 :
        print('Positive')
        print('Greater than 0')
    print('The end')
TWO WAY DECISIONS

if question :
   statement
else :
   statement

if x > 0 :
   print('Positive')
else :
   print('Negative or zero')
MULTI WAY DECISIONS

```python
if question:
    statement
elif question:
    statement
else:
    statement
```

```python
if x > 0:
    print('Positive')
elif x < 0:
    print('Negative')
else:
    print('Zero')
```
NESTED DECISIONS

if x == y:
    print('x and y are equal')
else:
    if x < y:
        print('x is less than y')
    else:
        print('x is greater than y')
TRY EXCEPT

try:
    statement
    statement
except:
    statement

try:
    number = int(string)
except:
    number = -1
RESERVED WORDS

if
    and
    or
    not
else
elif
try
except
Questions

>> type(1)
>> ???

>> type('True')
>> ???

>> type(True)
>> ???
Homework (students, number of days in month)

Questions?
Test 2

Questions?
Exercises

https://courses.cs.ut.ee/2018/nkp/fall/Main/During2