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

```python
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

```python
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

if question:
    statement
elif question:
    statement
else:
    statement

if x > 0:
    print 'Positive'
elif x < 0:
    print 'Negative'
else:
    print 'Zero'
NESTED DECISIONS

```python
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
    number = int(string)
    statement
except:
    number = -1
    statement
```
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?
LJUBOV JAANUSKA

ljubov.jaanuska@ut.ee
Exercises

https://courses.cs.ut.ee/2017/nkp/fall/Main/During2