Python Programlama Eğitimi

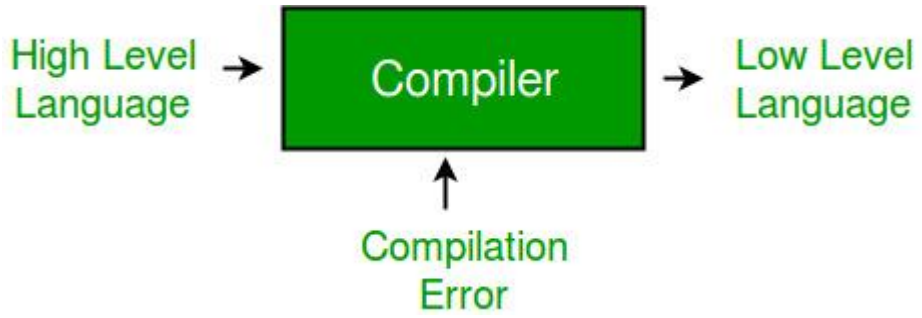
- Programlama nedir?
- Algoritma nedir?
- Algoritma neden önemlidir?

- Assembly Nedir?

```
08048918     pushl  %ebp
08048919     movl   %esp,%ebp
0804891b     subl   $0x4,%esp
0804891e     movl   $0x0,0xfffffffc(%ebp)
08048925     cmpl   $0x63,0xfffffffc(%ebp)
08048929     jle    08048930
0804892b     jmp    08048948
0804892d     nop
0804892e     nop
0804892f     nop
08048930     movl   0xfffffffc(%ebp),%eax
08048933     pushl  %eax
08048934     pushl  $0x8049418
08048939     call   080487c0 <printf>
0804893e     addl   $0x8,%esp
08048941     incl   0xfffffffc(%ebp)
08048944     jmp    08048925
08048946     nop
08048947     nop
08048948     xorl   %eax,%eax
0804894a     jmp    0804894c
0804894c     leave
0804894d     ret
```

- Programlama dili örnekleri nelerdir?
- Neler yapılır?
- Pseudo code nedir?

- Compiler nedir?
- Interpreter nedir?



- Syntax nedir?
- Indentation nedir?

- Variable
- String
- Integer

Temel Veri Tipleri

- Integer
- Long
- Float
- String
- Boolean
- List
- Tuple
- Dict

Python Mathematical Operators

- +
- -
- *
- /
- %
- **
- //

Python Comparison Operators

- ==
- !=
- <
- >
- <=
- >=

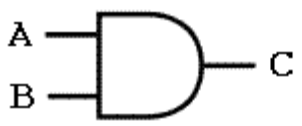
Python Assignment Operators

- =
- +=
- -=
- *=
- /=
- %=
- **=
- //=

Python Logical Operators

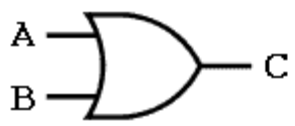
- And
- Or
- Not

AND



Inputs		Output
A	B	C
0	0	0
0	1	0
1	0	0
1	1	1

OR



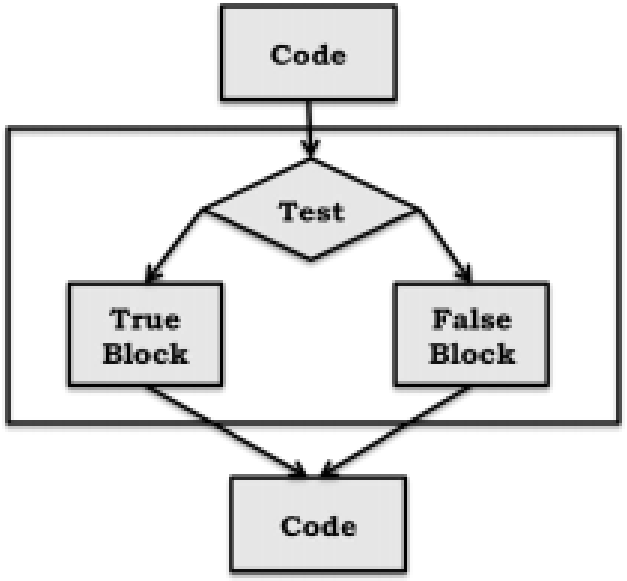
Inputs		Output
A	B	C
0	0	0
0	1	1
1	0	1
1	1	1

NOT

Input	Output
A	C
0	1
1	0

If Else

- If else nedir, ne işe yarar?



```
if x%2 == 0:
    if x%3 == 0:
        print 'Divisible by 2 and 3'
    else:
        print 'Divisible by 2 and not by 3'
elif x%3 == 0:
    print 'Divisible by 3 and not by 2'
```

The `elif` in the above code stands for “else if.”

Yorum Satırı

```
#This is a comment
print("Hello, World!")

print("Hello, World!") #This is a comment

"""
This is a comment
written in
more than just one line
"""
print("Hello, World!")
```

Input Alma

- print('Enter your name:')
  x = input()
  print('Hello, ' + x)
- x = input('Enter your name:')
  print('Hello, ' + x)

Python Type Casting

- x = int(1)
  y = int(2.8)
  z = int("3")
  x = float(1)
  y = float(2.8)
  z = float("3")
  w = float("4.2")
  x = str("s1")
  y = str(2)
  z = str(3.0)

String Concatenation and Formatting

- str1 = “Hello”
  str2 = “World”
  str1 + str2
- Fname = “John”
  Lname = “Doe”
  Age = “24”
  print “{} {} is {} years old.“ format(fname, lname, age)
- int a = 5
  hi = “Hello”
  print(hi + str(a))

Örnek Çalışma Soruları

- 1’den 10’a kadar rakamları ekrana yaz.
- 1’den 10’a kadar Rakam = 1 şeklinde ekrana yaz.
- 1’den 10’a kadar çift sayıları if kullanarak ekrana yaz.
- 1’den 10’a kadar çift sayıları if kullanmadan ekrana yaz.
- 1’den 10’a kadar faktoriyelleri ekrana yaz.
- Küp çizdirme, piramit çizdirme
- Asal sayılar