python™

# Praktikum
# Algoritma dan Pemrograman Komputer
## Semester Ganjil 2010/2011

# LAPORAN RESMI

| | | |
|---|---|---|
| NAMA | : | Rijalul Fikri |
| NRP | : | 2210 100 088 |
| TANGGAL PRAKTIKUM | : | 31 Desember 2010 |

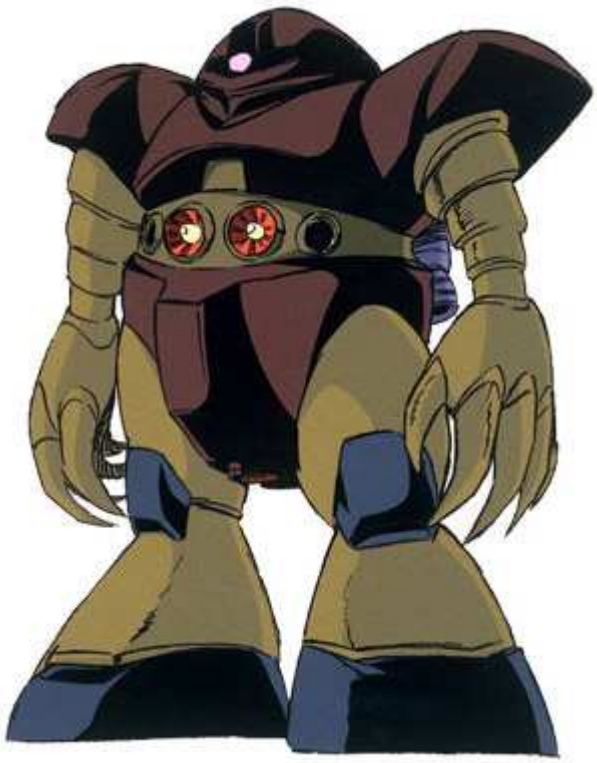
Program Studi Teknik Komputer dan Telematika
Jurusan Teknik Elektro
Fakultas Teknologi Industri
Institut Teknologi Sepuluh Nopember

LAB B.201

python™

# Praktikum
# Algoritma dan Pemrograman Komputer
## Semester Ganjil 2010/2011

## Modul 1
## Pengenalan IDE Python



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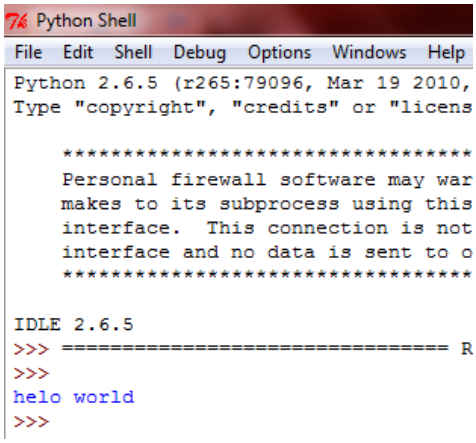
**MODUL 1**

### 1.1.1 INTEACTIVE SHELL

**input**

print “hello world”

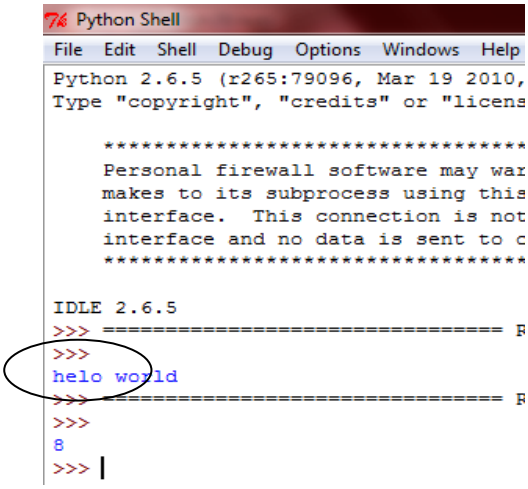
**output**




**input**

Print 5+3

**Output**



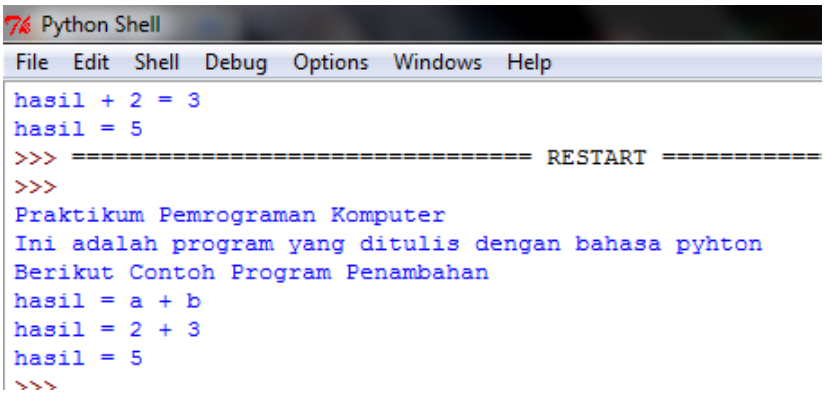

### LATIHAN 1.1 : PROGRAM SEDRHANA

**input**

#Program 1

```
print "Praktikum Pemrograman Komputer"

print "Ini adalah program yang ditulis dengan bahasa pyhton"

print "Berikut Contoh Program Penambahan"

a=2

b=3

hasil = a + b

print "hasil = a + b"

print "hasil  =  %d+%d" % (a,b)

print "hasil = %d" % (hasil)
```

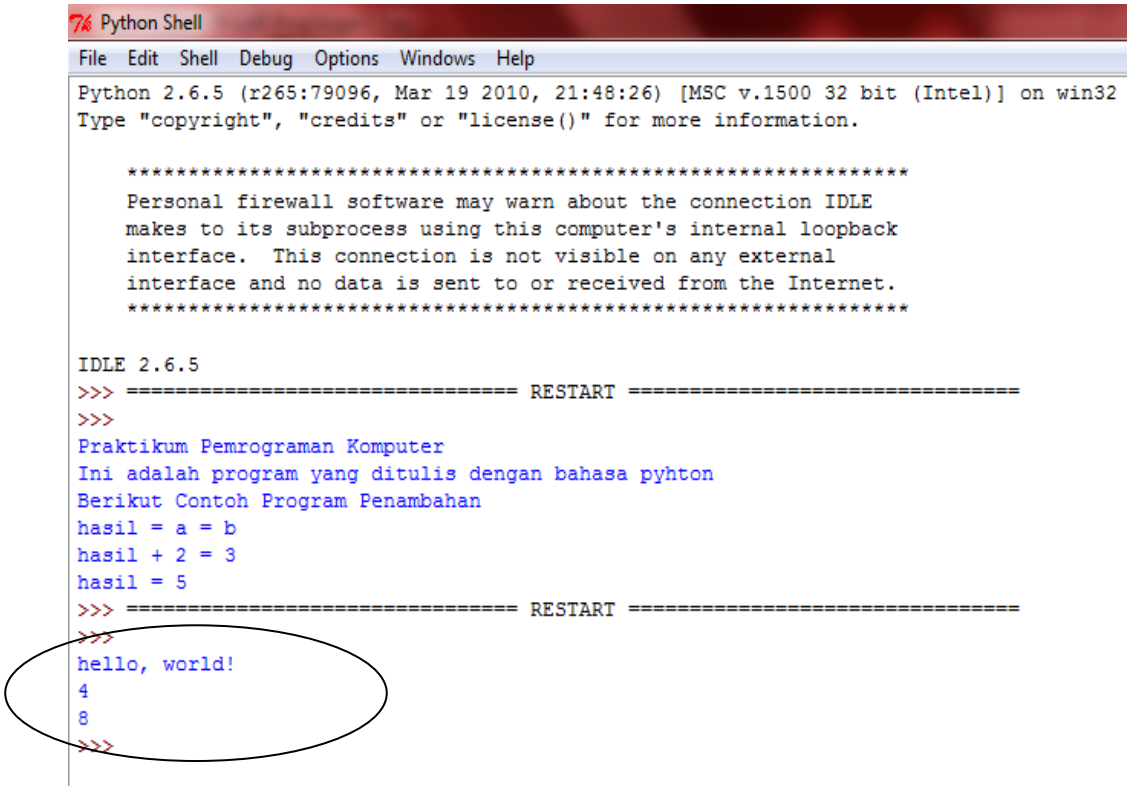
**output**




**input**

```
Print “hello, world!”

Print 2+2

a = 2*4

print a
```

**output**



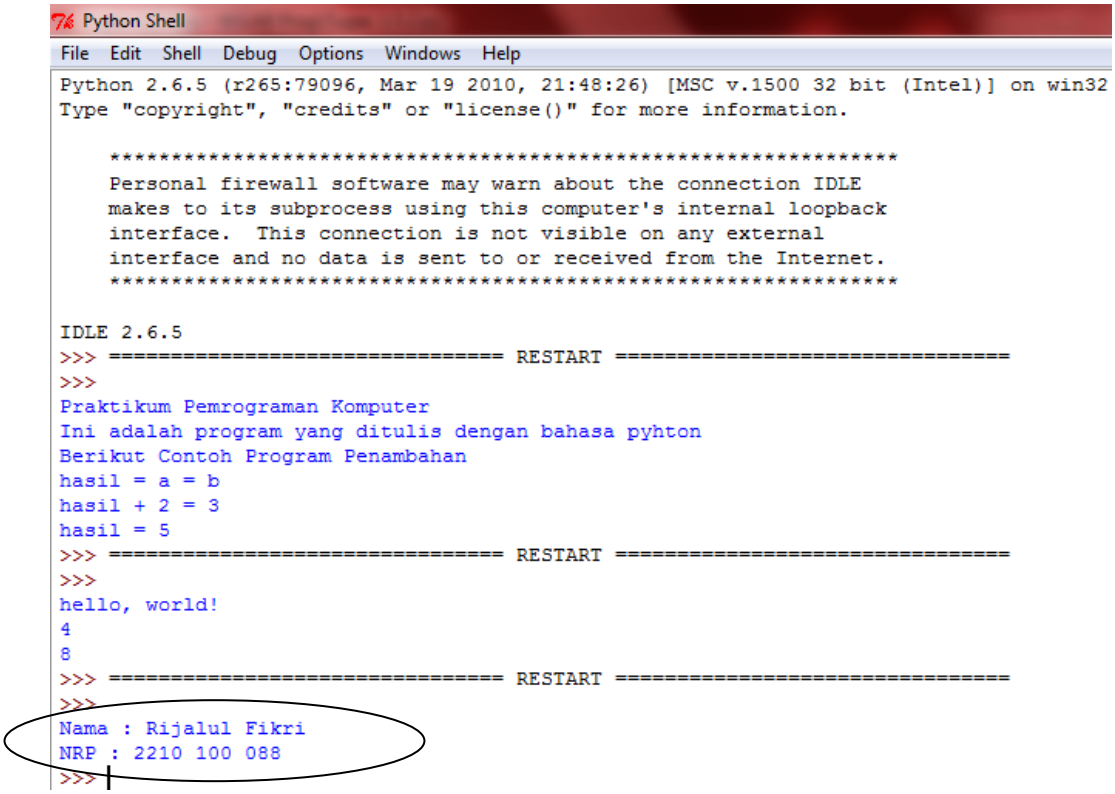

**LAIHAN MANDIRI : Munculkan Nama dan NRP**

**input**

Print “Nama : Rijalul Fikri”

Print “NRP : 2210 100 088”

**output**




**LATIHAN 1. 2 : Deteksi Kesalaahn Sintak**

**input**

print "PRAKTIKUM PEMROGRAMAN KOMPUTER"

print "Ini adalah program yang ditulis dengan Bahasa Python"

print "Berikut contoh program penambahan"

a := 2

b = 3

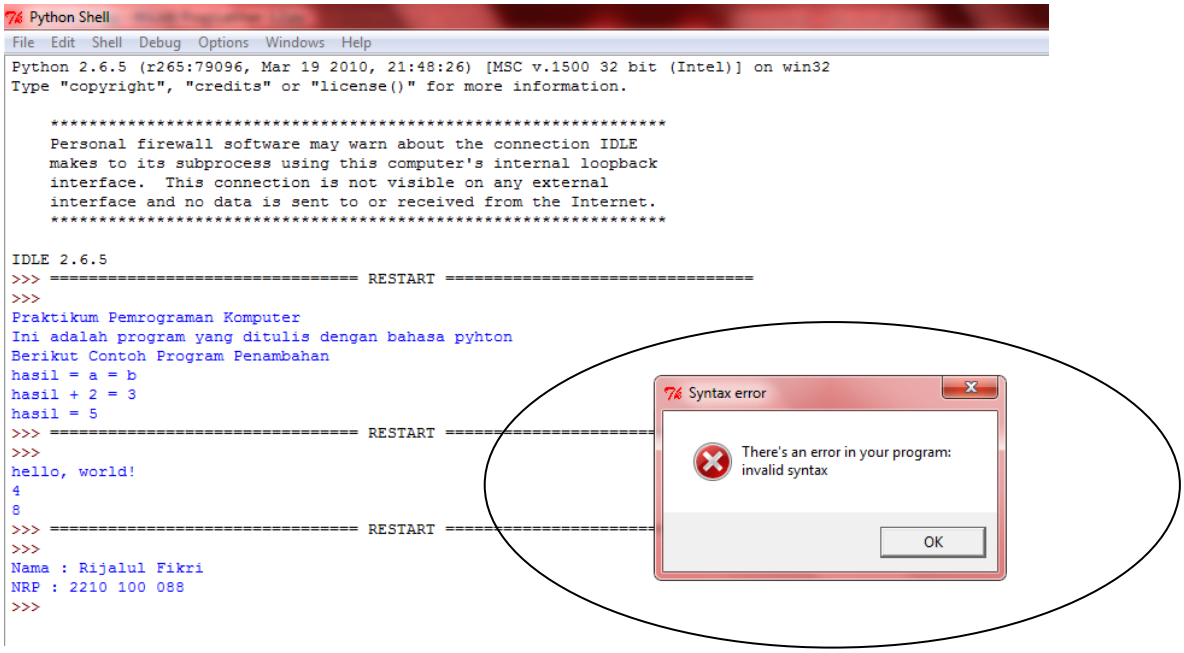
hasil = a + b

print "hasil = a + b"

print "hasil = %d + %d" % (a,b)

print "hasil = %d" % (hasil)

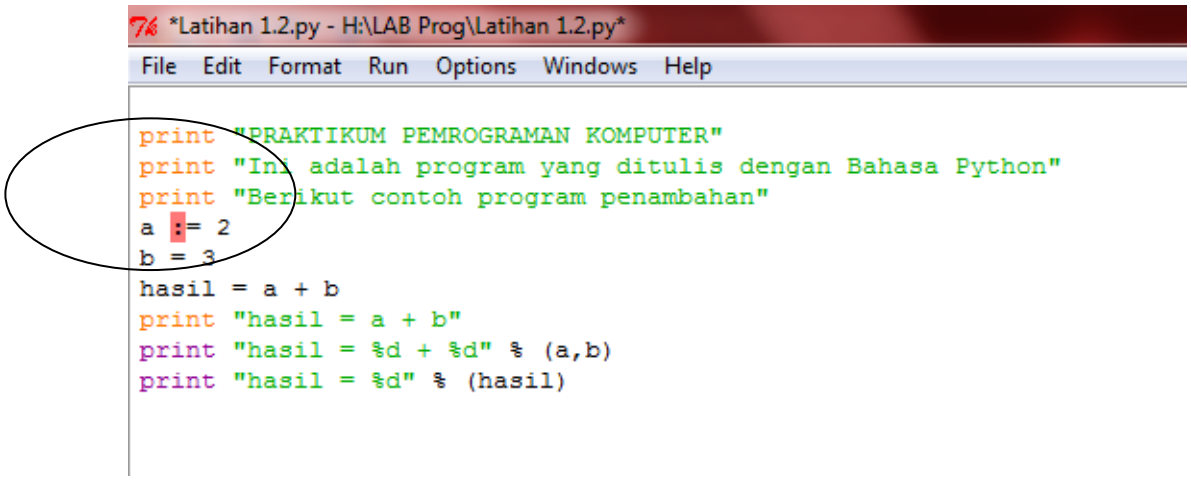
**Output**




Keterangan : mendeteksi ada kesalahan dalam proses

**Klik OK.....!!!!!!!!!!!!**

**Lanjutan**



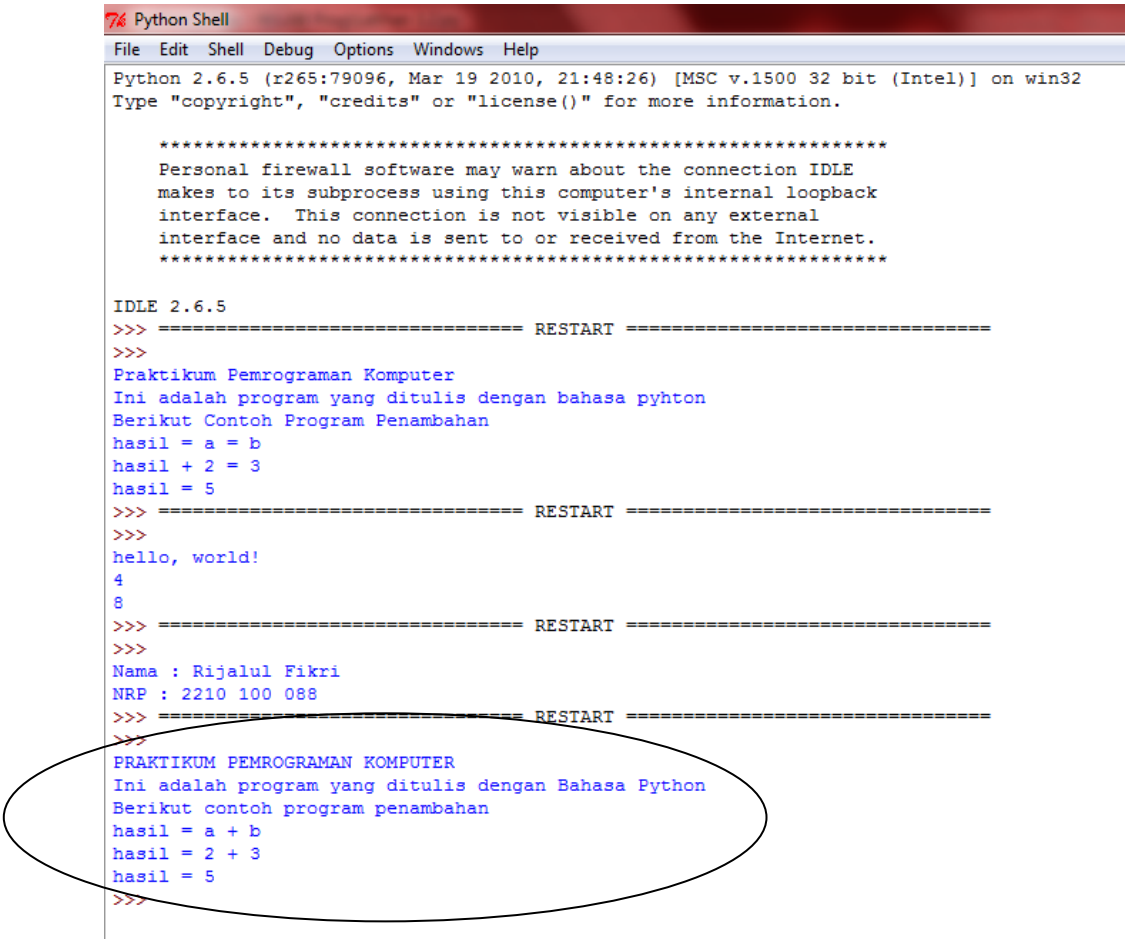

Keterangan : mendeteksi sebuah kesalahan pada yang diwana merah , tanda " : "

**input**

```
print "PRAKTIKUM PEMROGRAMAN KOMPUTER"

print "Ini adalah program yang ditulis dengan Bahasa Python"

print "Berikut contoh program penambahan"

a = 2

b = 3

hasil = a + b

print "hasil = a + b"

print "hasil = %d + %d" % (a,b)

print "hasil = %d" % (hasil)
```

Kesalahan yang sudah ditandai dengan warna merah dihapus.....!!!!!!!!!

**output**




**TUGAS 1.5**

**input**

print "hello, world!"

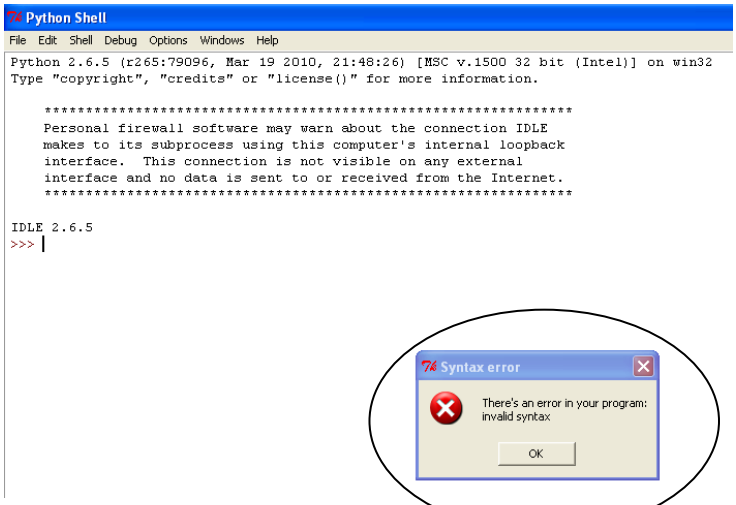
print 2 + 2,

print "test 123”

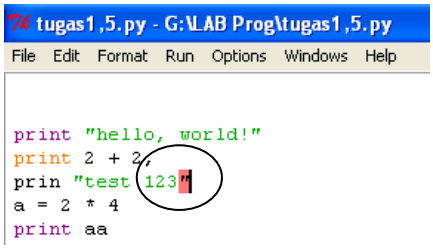
a = 2 * 4

print aa

**Output**




**Deteksi Kesalahan**




**PEMBETULAN**

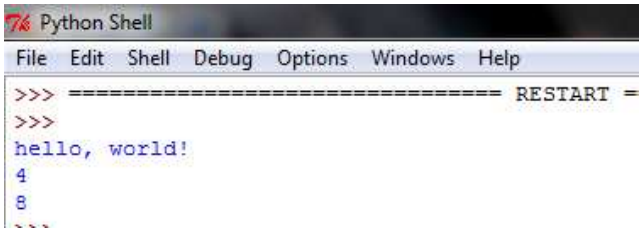
**input**

print "hello, world!"

print 2 + 2

a = 2 * 4

print a



# Praktikum

# Algoritma dan Pemrograman Komputer

## Semester Ganjil 2010/2011

## Modul 2

## Input / Output (I/O)

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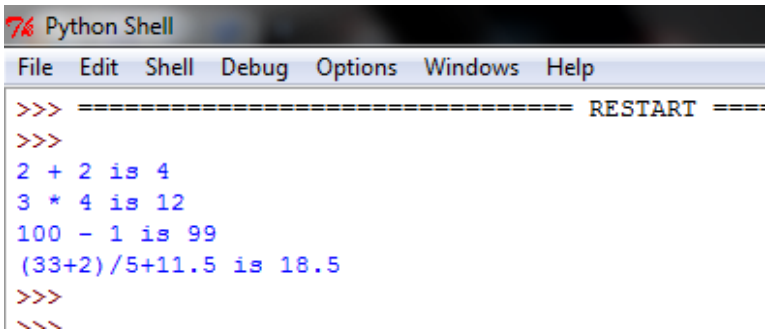
MODUL 2

## 2.1 MENANMPILKAN DATA DENGAN PERINTAH PRINT

### Tidak Menggunakan Variabel

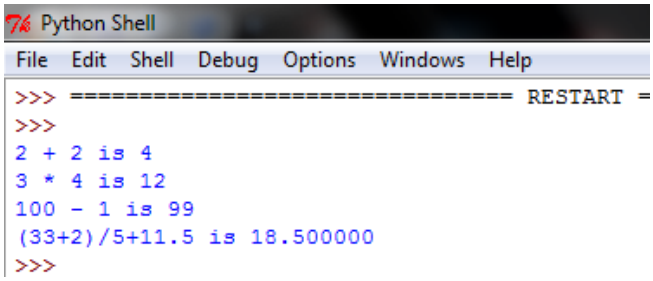
```
print "2 + 2 is", 2+2

print "3 * 4 is", 3*4

print "100 - 1 is", 100-1

print "(33+2)/5+11.5 is", (33+2)/5+11.5
```

### Output




### Menggunakan Variabel

```
print "2 + 2 is %d" %(2+2)

print "3 * 4 is %d" %(3*4)

print "100 - 1 is %d" %(100-1)

print "(33+2)/5+11.5 is %f" %((33+2)/5+11.5)
```



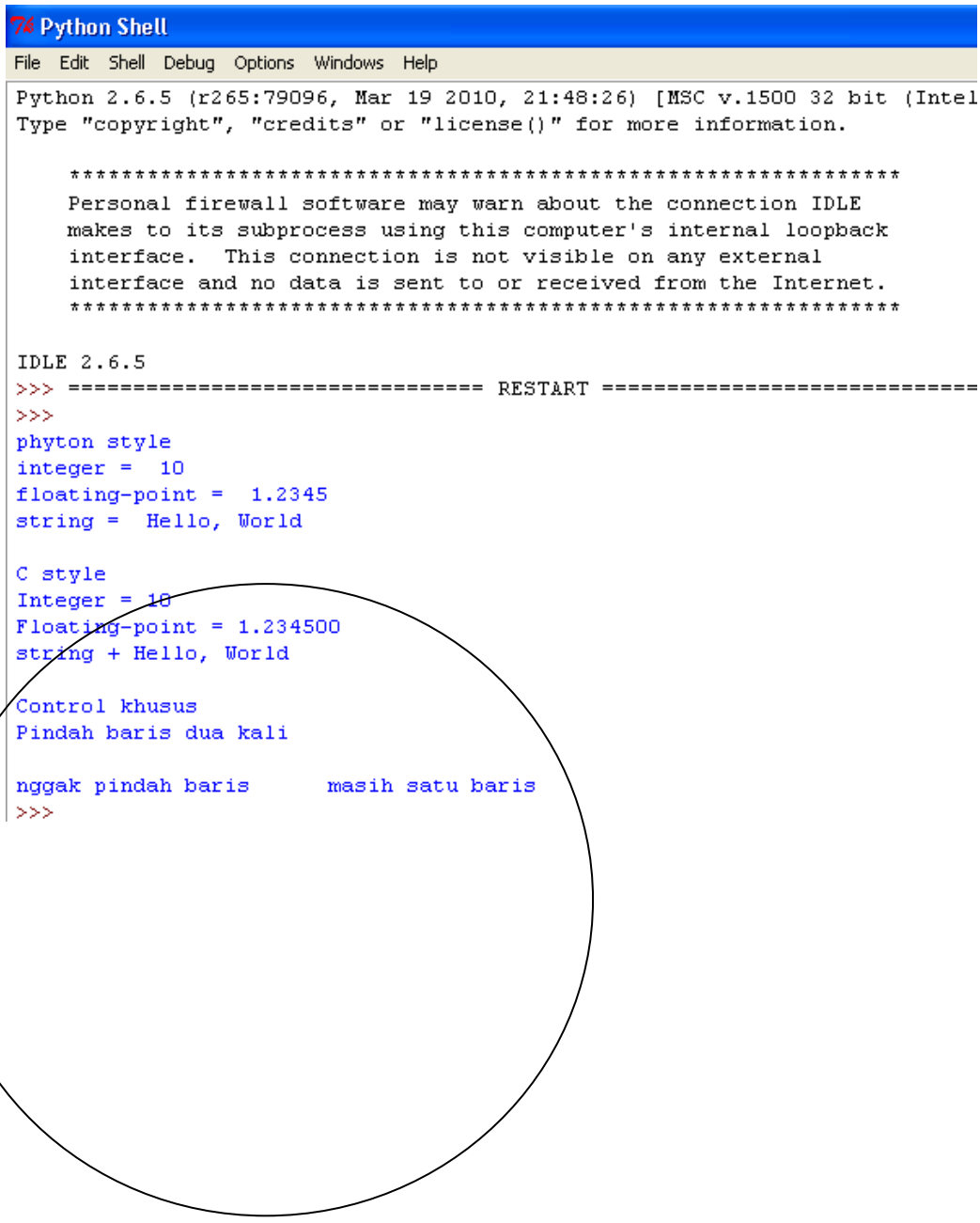

**LATIHAN 2.1 : MENAMPILKAN DATA**

**Proses**

```
# Latihan 2.1

no = 10

var_float = 1.2345

var_str = "Hello, World"


print "phyton style"

print "ok = ",no

print "floating-point = ", var_float

print "string = ",var_str

print

print "C style"

print "ok = %d" % (no)

print "Floating-point = %f" % (var_float)

print "string + %s" % (var_str)

print

print "Control khusus"

print "Pindah baris dua kali\n"

print "nggak pindah baris",
```

print "\tmasih satu baris"

**Output**

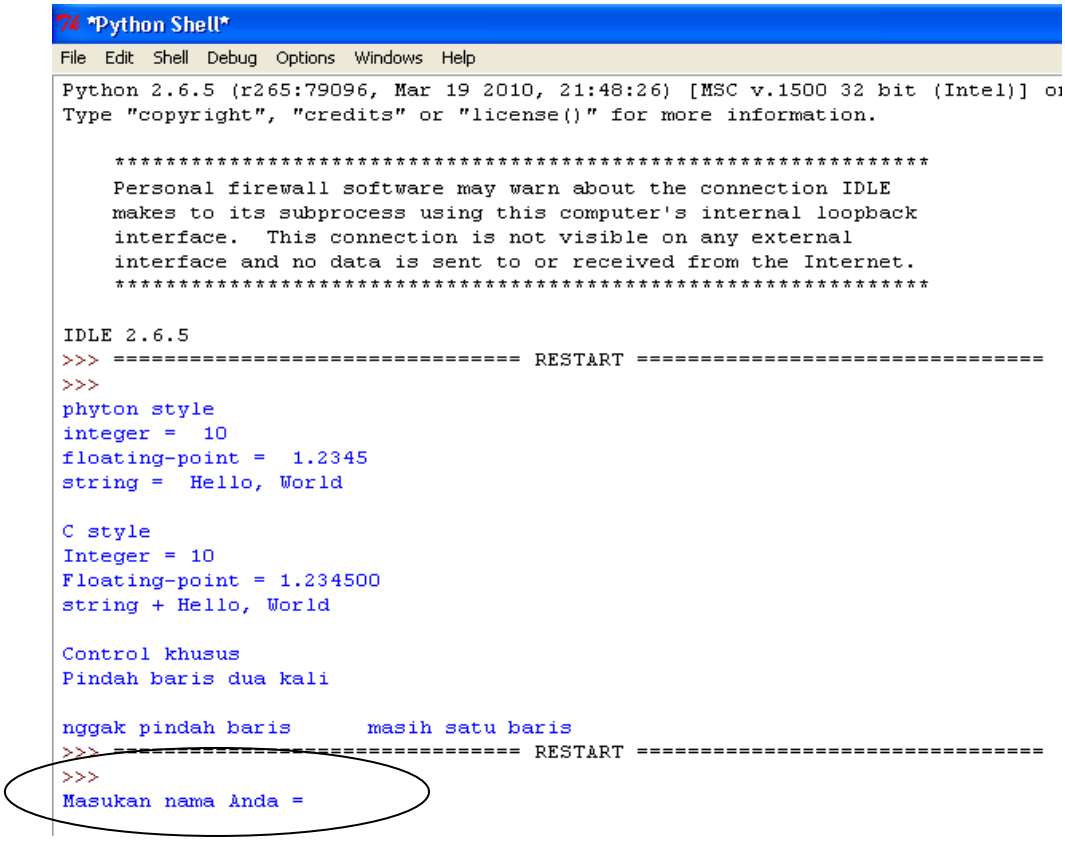


**LATIHAN 2.2: MENGINPUTKAN DAN MENAMPILKAN DATA**

**Proses**

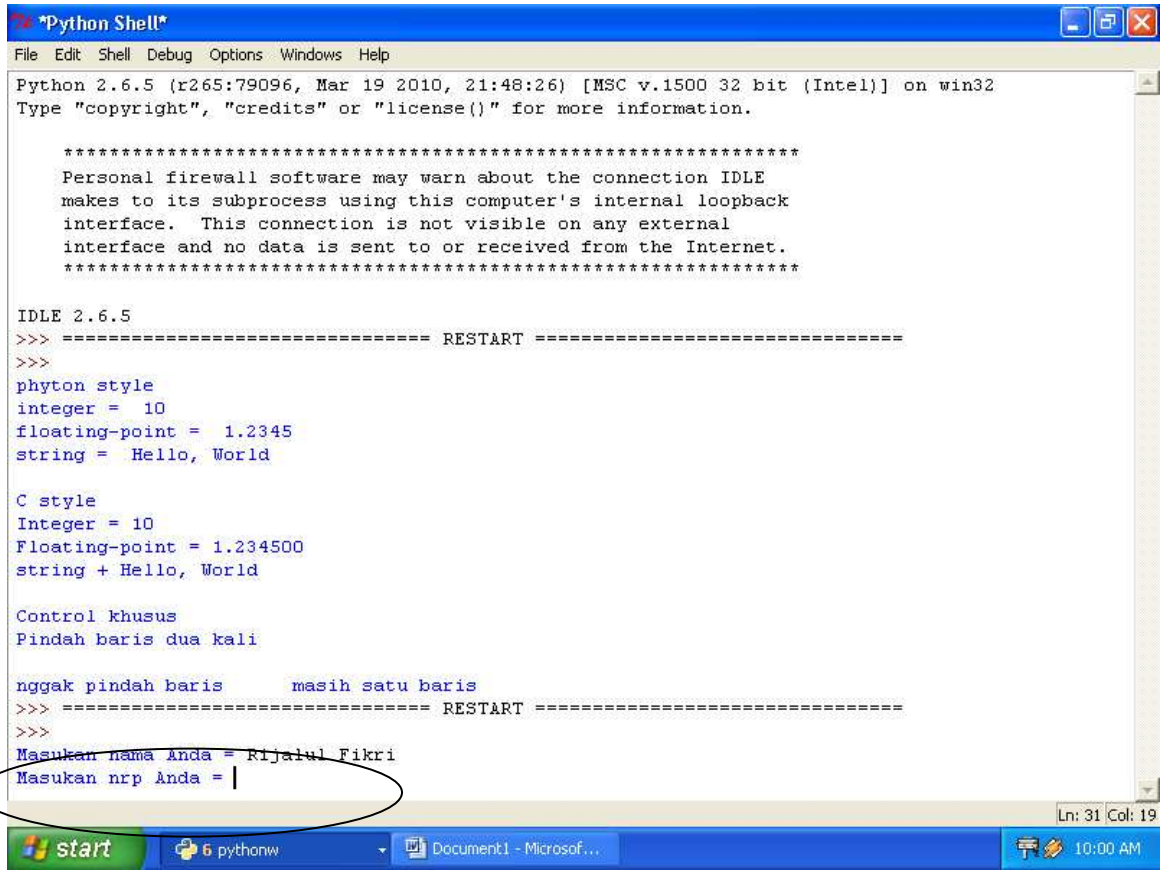
```
kuliah = "Praktikum Prokom"
nama = raw_input ("Masukan nama Anda = ")
nrp = input ("Masukan nrp Anda = ")
print
print "Selamat Datang di Mata Kuliah", kuliah
```

**Output**


*Python Shell*
File Edit Shell Debug Options Windows Help
Python 2.6.5 (r265:79096, Mar 19 2010, 21:48:26) [MSC v.1500 32 bit (Intel)] o
Type "copyright", "credits" or "license()" for more information.
**********
Personal firewall software may warn about the connection IDLE
makes to its subprocess using this computer's internal loopback
interface. This connection is not visible on any external
interface and no data is sent to or received from the Internet.
**********
IDLE 2.6.5
>>> ========== RESTART ==========
>>>
phyton style
integer = 10
floating-point = 1.2345
string = Hello, World
C style
Integer = 10
Floating-point = 1.234500
string + Hello, World
Control khusus
Pindah baris dua kali
nggak pindah baris masih satu baris
>>> ========== RESTART ==========
>>>
Masukan nama Anda =

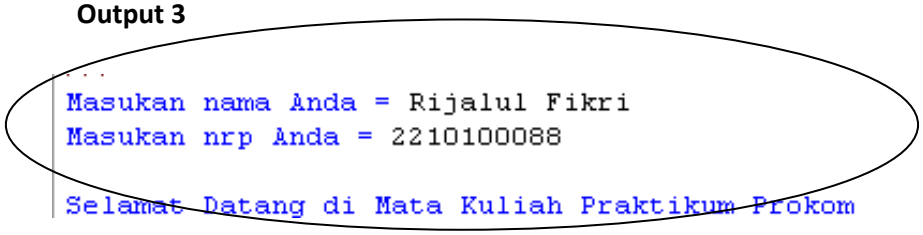
“Masukan nama Anda=” diisi Rijalul Fikri

**Output 2**




“Masukan nrp=” diisi 2210100088

**Output 3**

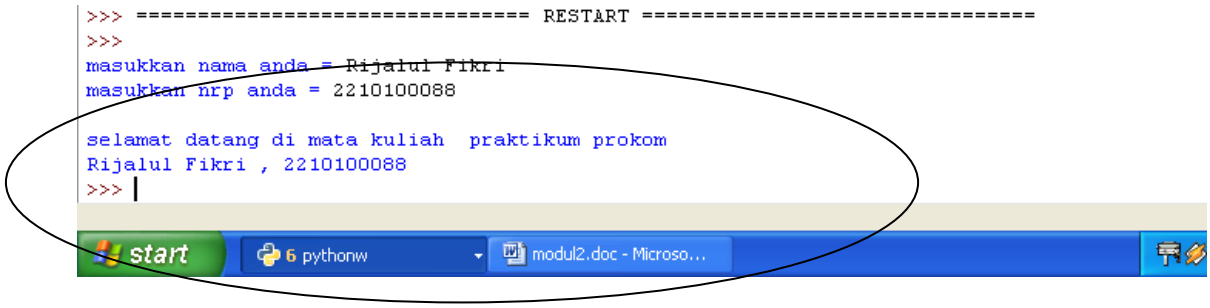


**KOMBINASI TUGAS 2.2**

**Proses**

```
#latihan 2.2

kuliah = "praktikum prokom"

nama = raw_input ("masukkan nama anda = ")

nrp = input ("masukkan nrp anda = ")

print "selamat datang di mata kuliah ", kuliah

print nrp," , ", nama
```

**Output**



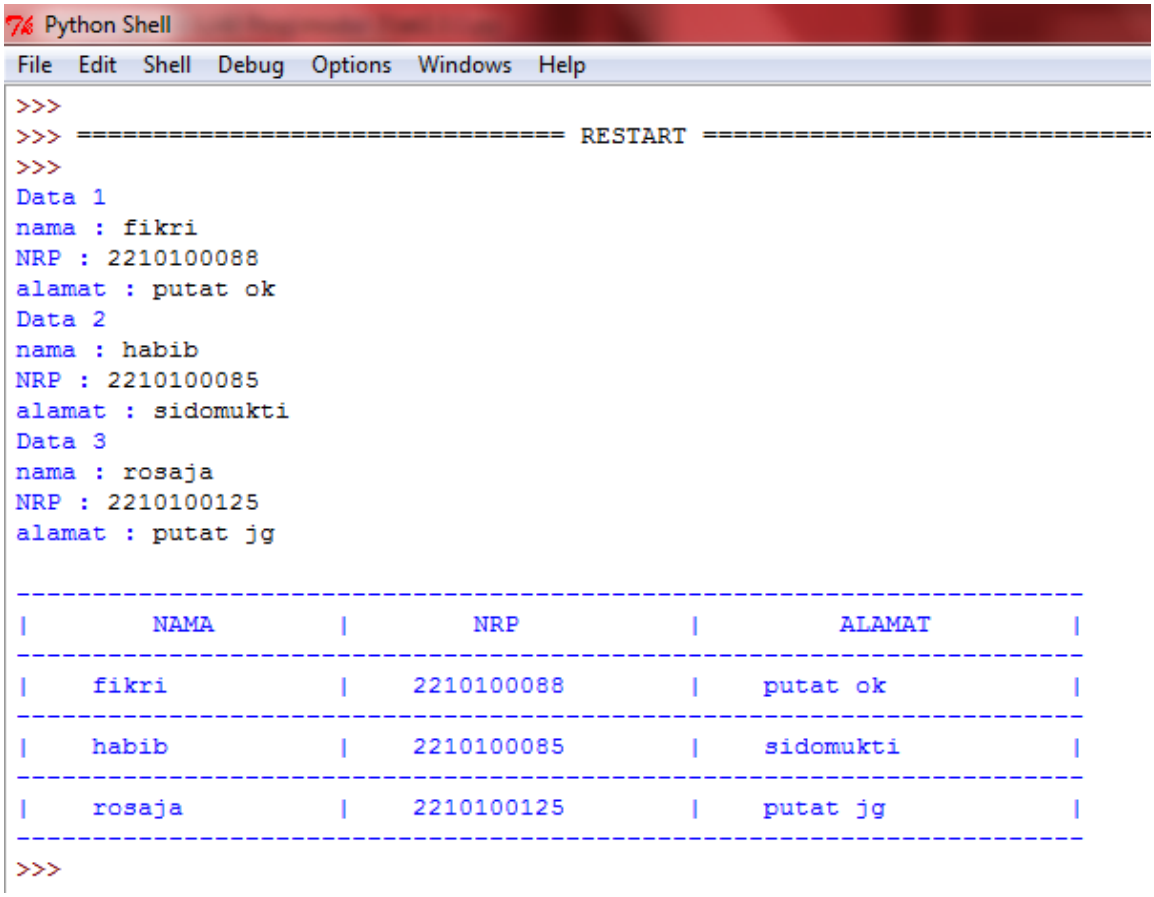
**LATIHAN 2.3.1**

**Proses**

```
print "Data 1"
Nama1 = raw_input ("nama : ")
NRP1 = raw_input ("NRP : ")
alamat1 = raw_input ("alamat : ")
print "Data 2"
Nama2 = raw_input ("nama : ")
NRP2 = raw_input ("NRP : ")
alamat2 = raw_input ("alamat : ")
print "Data 3"
Nama3 = raw_input ("nama : ")
NRP3 = raw_input ("NRP : ")
alamat3 = raw_input ("alamat : ")
garis = "------------------------------------------------------------------"
print
print garis
print "|      NAMA      |      NRP        |      ALAMAT      |"
print garis
print "|   %s        |" % (Nama1),  "   %s      |" % (NRP1),  "   %s         |" %(alamat1)
print garis
print "|   %s        |" % (Nama2),  "   %s      |" % (NRP2),  "   %s         |" %(alamat2)
print garis
```

```
print "|    %s        |" % (Nama3),   "   %s        |" % (NRP3),   "   %s          |" %(alamat3)

print garis
```

**Output**



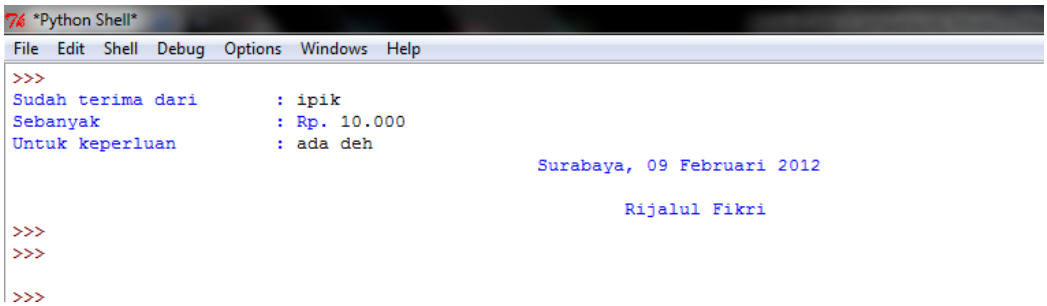

**Proses**

```
a=raw_input("Sudah terima dari\t: ")

b=raw_input("Sebanyak\t\t: Rp. ")

c=raw_input("Untuk keperluan\t\t: ")
```

print "\t\t\t\t\tSurabaya, 09 Februari 2012"

print "\n\t\t\t\t\t\t\tRijalul Fikri"

**Output**



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# Praktikum
# Algoritma dan Pemrograman Komputer
## Semester Ganjil 2010/2011

## Modul 3
## Variabel, List, Operator, dan Lambda

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# MODUL 3

## LATIHAN 3.0

### Proses

a = 10.5

type (a)

### Output

```
IDLE 2.6.5
>>> ================================ RESTART ================================
>>>
>>> a
10.5
>>>
```

## Latihan 3.1

### Proses

# Program 3.1

import math

r = Proses("Jari-jari lingkaran = ")

print "Luas lingkaran =", math.pi*r*r

### Output

```
IDLE 2.6.5
>>> ================================ RE
>>>
jari-jari lingkaran=7
Luas lingkaran= 153.938040026
>>>
```

## LATIHAN 3.2

### Proses

#Program 3.2

import math

r=Proses("jari-jari lingkaran=")

luas=math.pi*r*r

print "Luas lingkaran=",luas

**Output**

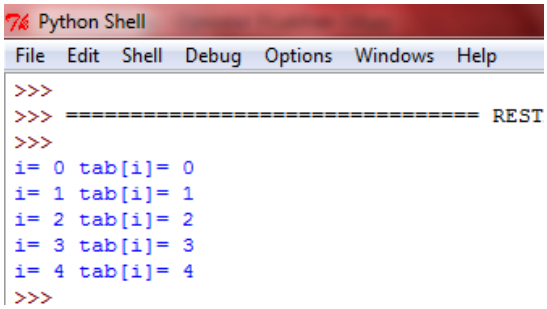
```
>>> ================================ RESTART ================================
>>>
jari-jari lingkaran=10
Luas lingkaran= 314.159265359
>>>
```

**LATIHAN 3.3**

**Proses**

```
#Program 3.3
N=5
tab=[0]*N
for i in range(N):
    tab[i]=i
for i in range(N):
    print"i=",i,"tab[i]=",tab[i]
```

**Output**

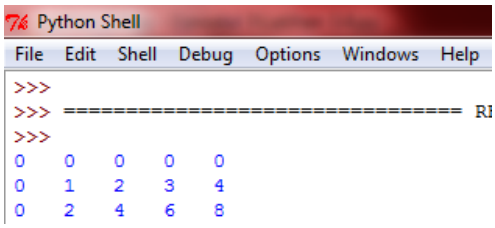



**LATIHAN 3.4**

**Proses**

```
#Program 3.4
b=[[0,0,0]]*5
for i in range (3):
    for j in range(5):
        b[j][i]=i*j
        print b[j][i]," ",
    print
```

**Output**




**LATIHAN 3.5**

**Proses**

#Program 3.5

i=100

j=i*2

k=j/4

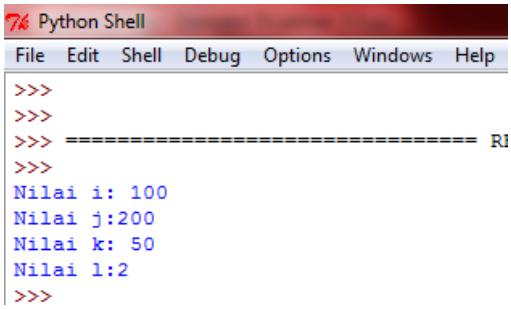
l=k%3

f=lambda x: x**2

print "Nilai i: %d \nNilai j:%d" %(i,j)

print "Nilai k: %d \nNilai l:%d" %(k,l)

**Output**

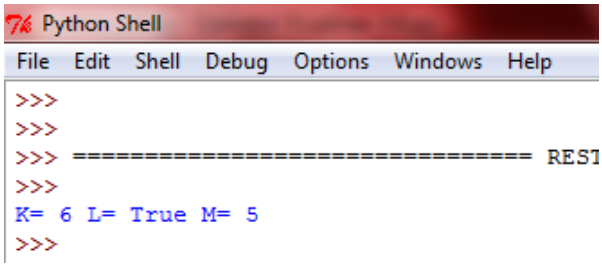


**LATIHAN 3.6**

**Proses**

```
#Program 3.6
k=2*3
l=(k==6)
m=5 or 10
print "K=", k, "L=", l, "M=", m
```

**Output**



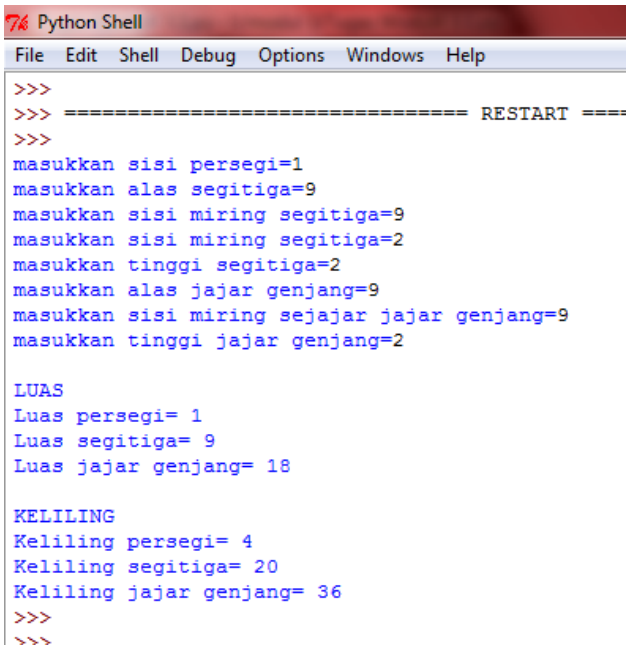

**TUGAS MODUL 3.1**

**Proses**

```
#Luas Dan keliling Persegi, segitiga, jajar genjang
s=Proses("masukkan sisi persegi=")
a=Proses("masukkan alas segitiga=")
c=Proses("masukkan sisi miring segitiga=")
d=Proses("masukkan sisi miring segitiga=")
t=Proses("masukkan tinggi segitiga=")
b=Proses("masukkan alas jajar genjang=")
m=Proses("masukkan sisi miring sejajar jajar genjang=")
h=Proses("masukkan tinggi jajar genjang=")
```

```
L1=s**(2)
L2=(a*t)/2
L3=b*h
K1=4*s
K2=c+d+a
K3=(2*b)+(2*m)
print
print "LUAS"
print "Luas persegi=",L1
print "Luas segitiga=",L2
print "Luas jajar genjang=",L3
print
print "KELILING"
print "Keliling persegi=",K1
print "Keliling segitiga=",K2
print "Keliling jajar genjang=",K3
```

**Output**




**TUGAS MODUL 3.2**

**Proses**

#Volume tabung, balok, dan prisma segitiga

pi=Proses("masukkan nilai pi=")

t=Proses("masukkan tinggi tabung=")

r=Proses("masukkan jari-jari tabung=")

p=Proses("masukkan panjang balok=")

t=Proses("masukkan tinggi balok=")

l=Proses("masukkan lebar balok=")

h=Proses("masukkan tinggi prisma=")

s=Proses("masukkan panjang alas prisma=")

u=Proses("masukkan tinggi alas prisma=")

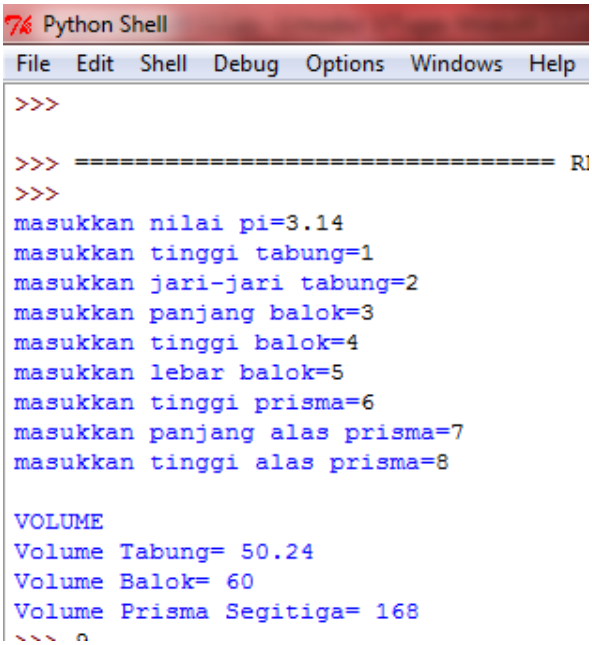
v1=pi*r*r*t

v2=p*l*t

v3=((s*u)/2)*h

```
print

print "VOLUME"

print "Volume Tabung=",v1

print "Volume Balok=",v2

print "Volume Prisma Segitiga=",v3
```

**Output**



**TUGAS MODUL 3.3**

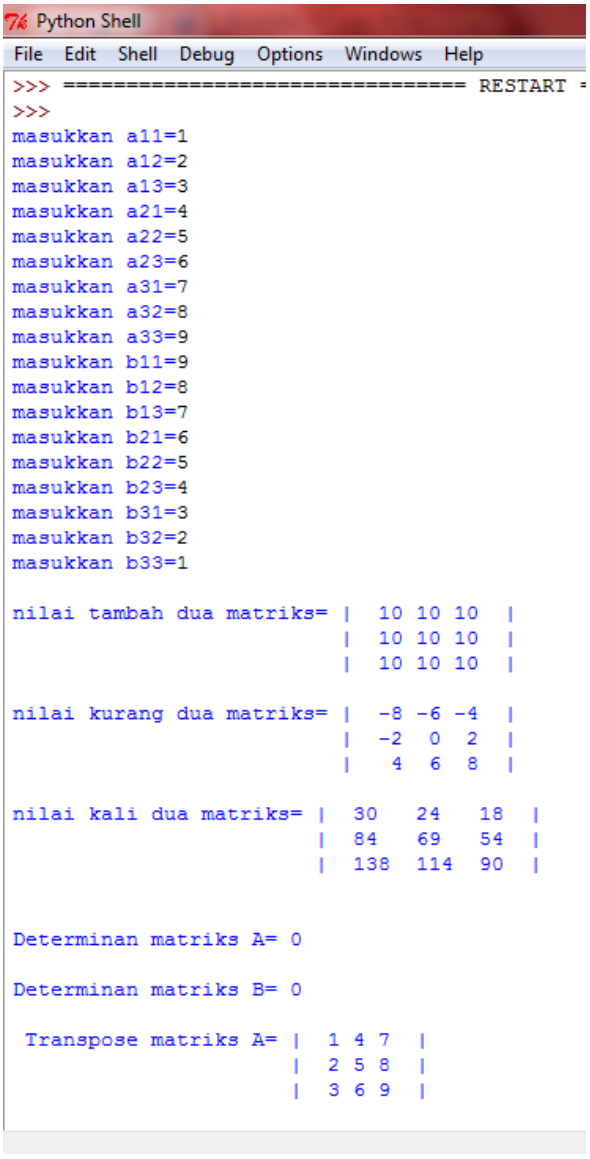
**Proses**

```
#Operasi 2 matriks
a11=Proses("masukkan a11=")
a12=Proses("masukkan a12=")
a13=Proses("masukkan a13=")
a21=Proses("masukkan a21=")
a22=Proses("masukkan a22=")
a23=Proses("masukkan a23=")
a31=Proses("masukkan a31=")
a32=Proses("masukkan a32=")
a33=Proses("masukkan a33=")
b11=Proses("masukkan b11=")
b12=Proses("masukkan b12=")
b13=Proses("masukkan b13=")
b21=Proses("masukkan b21=")
b22=Proses("masukkan b22=")
b23=Proses("masukkan b23=")
b31=Proses("masukkan b31=")
b32=Proses("masukkan b32=")
b33=Proses("masukkan b33=")
c11=(a11+b11)
c12=(a12+b12)
c13=(a13+b13)
c21=(a21+b21)
c22=(a22+b22)
c23=(a23+b23)
c31=(a31+b31)
```

```
c32=(a32+b32)
c33=(a33+b33)
print
print "nilai tambah dua matriks= | ",c11,  c12,  c13," |"
print "                          | ",c21,  c22,  c23," |"
print "                          | ",c31,  c32,  c33," |"
c11=(a11-b11)
c12=(a12-b12)
c13=(a13-b13)
c21=(a21-b21)
c22=(a22-b22)
c23=(a23-b23)
c31=(a31-b31)
c32=(a32-b32)
c33=(a33-b33)
print

print "nilai kurang dua matriks= | ",c11,  c12,  c13," |"
print "                          | ", c21,  "",c22, "",c23," |"
print "                          | ","",c31,"",c32,"",c33," |"
print
c11=(a11*b11)+(a12*b21)+(a13*b31)
c12=(a11*b12)+(a12*b22)+(a13*b32)
c13=(a11*b13)+(a12*b23)+(a13*b33)
c21=(a21*b11)+(a22*b21)+(a23*b31)
c22=(a21*b12)+(a22*b22)+(a23*b32)
c23=(a21*b13)+(a22*b23)+(a23*b33)
c31=(a31*b11)+(a32*b21)+(a33*b31)
```

```
c32=(a31*b12)+(a32*b22)+(a33*b32)

c33=(a31*b13)+(a32*b23)+(a33*b33)

print "nilai kali dua matriks= | ", c11," ",c12," ",c13," |"

print "                  | ", c21," ",c22," ",c23," |"

print "                  | ",c31,  "",c32,"",  c33," |"

print

D1=(a11*a22*a33)+(a12*a23*a31)+(a13*a21*a32)-(a12*a21*a33)-(a11*a23*a32)-
(a13*a22*a31)

D2=(b11*b22*b33)+(b12*b23*b31)+(b13*b21*b32)-(b12*b21*b33)-(b11*b23*b32)-
(b13*b22*b31)

print

print "Determinan matriks A=",D1

print

print "Determinan matriks B=",D2

print

print " Transpose matriks A= | ",a11,  a21,  a31," |"

print "                  | ",a12,  a22,  a32," |"

print "                  | ",a13,  a23,  a33," |"

print

print " Transpose matriks B= | ",b11,  b21,  b31," |"

print "                  | ",b12,  b22,  b32," |"

print "                  | ",b13,  b23,  b33," |"

print

print " ---SELESAI--- "
```

## Output


Python Shell
File Edit Shell Debug Options Windows Help
>>> ================================ RESTART =
>>>
masukkan a11=1
masukkan a12=2
masukkan a13=3
masukkan a21=4
masukkan a22=5
masukkan a23=6
masukkan a31=7
masukkan a32=8
masukkan a33=9
masukkan b11=9
masukkan b12=8
masukkan b13=7
masukkan b21=6
masukkan b22=5
masukkan b23=4
masukkan b31=3
masukkan b32=2
masukkan b33=1
nilai tambah dua matriks= | 10 10 10 |
| 10 10 10 |
| 10 10 10 |
nilai kurang dua matriks= | -8 -6 -4 |
| -2 0 2 |
| 4 6 8 |
nilai kali dua matriks= | 30 24 18 |
| 84 69 54 |
| 138 114 90 |
Determinan matriks A= 0
Determinan matriks B= 0
Transpose matriks A= | 1 4 7 |
| 2 5 8 |
| 3 6 9 |

```
nilai tambah dua matriks= |  10 10 10  |
                          |  10 10 10  |
                          |  10 10 10  |

nilai kurang dua matriks= |  -8 -6 -4  |
                          |  -2  0  2  |
                          |   4  6  8  |

nilai kali dua matriks= |  30   24   18  |
                        |  84   69   54  |
                        |  138  114  90  |


Determinan matriks A= 0

Determinan matriks B= 0

 Transpose matriks A= |  1 4 7  |
                      |  2 5 8  |
                      |  3 6 9  |

 Transpose matriks B= |  9 6 3  |
                      |  8 5 2  |
                      |  7 4 1  |

 ---SELESAI---
```

python™

# Praktikum
# Algoritma dan Pemrograman Komputer
## Semester Ganjil 2010/2011

## Modul 4
## Kontrol Program

Program Studi Teknik Komputer dan Telematika
Jurusan Teknik Elektro
Fakultas Teknologi Industri
Institut Teknologi Sepuluh Nopember

LAB V B.201

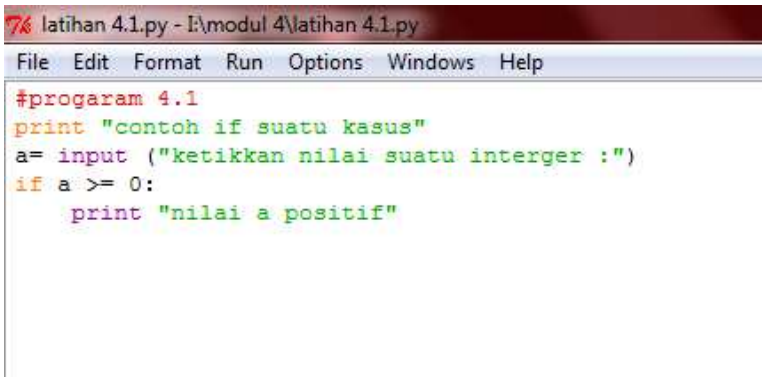
# MODUL 4

## LATIHAN 4.1

**Proses**

```
#progaram 4.1
print "contoh if suatu kasus"
a= Proses ("ketikkan nilai suatu interger :")
if a >= 0:
    print "nilai a positif"
```

**Output**

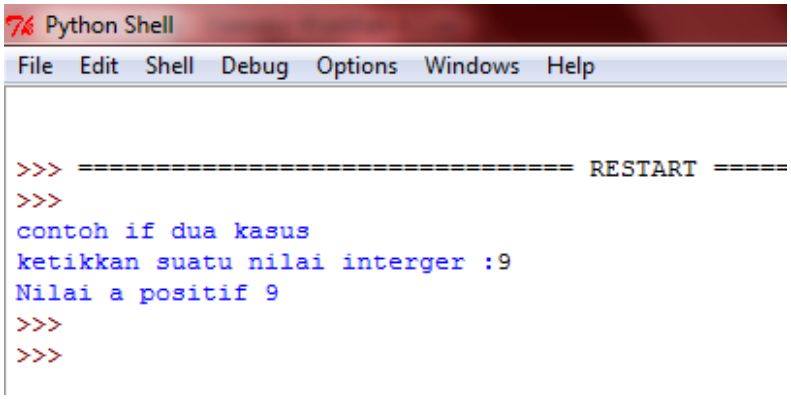



## LATIHAN 4.2

**Proses**

```
#program 4.2
print "contoh if dua kasus"
a= Proses ("ketikkan suatu nilai interger :")
if a>=0:
    print "Nilai a positif",a
else:
    print "Nilai a negatif",a
```

**Output**

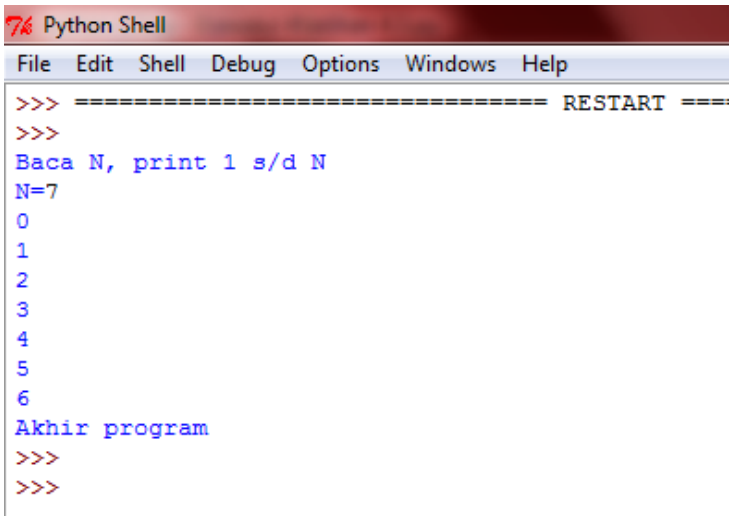



**LATIHAN 4.3**

**Proses**

```
# program 4.3

print "Baca N, print 1 s/d N"

N= Proses ("N=")

for i in range (N):

    print i

print "Akhir program"
```

**Output**




**LATIHAN 4.4**

**Proses**

```
#program 4.4
N= Proses ("Nilai N=")
print "print i dengan WHILE"
i=1
while i <= N:
    print i
    i=i+1
```

**Output**

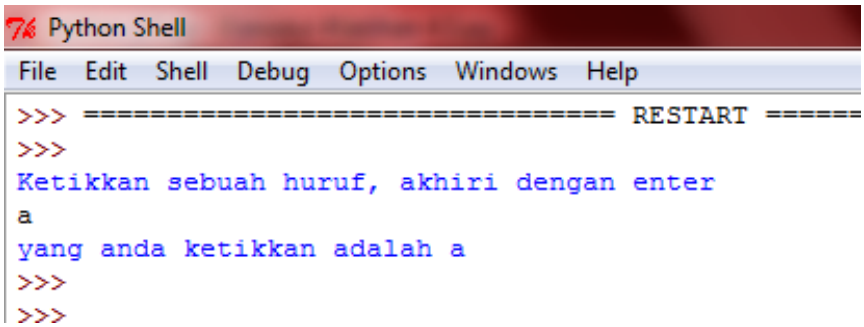

**LATIHAN 4.5**

**Proses**

```
#PROGRAM 4.5
cc=raw_Proses ("Ketikkan sebuah huruf, akhiri dengan enter  \n")
if cc =="o":
    print "yang anda ketikkan adalah o"
elif cc== "a":
    print "yang anda ketikkan adalah a"
elif cc=="u":
```

```
    print "yang anda ketikkan adalah u"
elif cc=="e":
    print "yang anda ketikkan adalah e"
elif cc=="i":
    print "yang anda pikirkan adalah i"
else:
    print "yang anda ketik adalh huruf mati"
```

**Output**

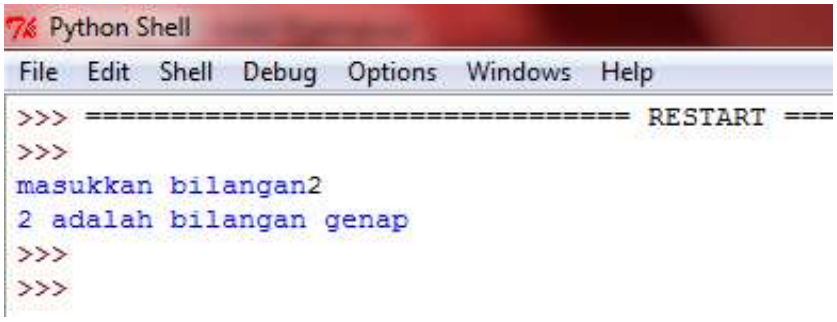



**TUGAS 4.1**

**Proses**

```
b=Proses ("masukkan bilangan")
if b%2==0:
    print b, "adalah bilangan genap"
else:
    print b, "adalah bilanga ganjil"
```

**Output**


Python Shell
File Edit Shell Debug Options Windows Help
>>> ========== RESTART ===
>>>
masukkan bilangan2
2 adalah bilangan genap
>>>
>>>

python™

# Praktikum

## Algoritma dan Pemrograman Komputer

### Semester Ganjil 2010/2011

# Modul 5

# Fungsi dan Parameter

Program Studi Teknik Komputer dan Telematika
Jurusan Teknik Elektro
Fakultas Teknologi Industri
Institut Teknologi Sepuluh Nopember

LAB B.201

MODUL 5

## Latihan 5.1

```
#Program 5.1
def input_data():
   "Fungsi pertama"
   nama=raw_input("Nama:")
   nrp=raw_input("NRP:")

def cetak_string():
   print"Ini adalah fungsi yang mencetak string"
   print"Silahkan masukkan data"
   input_data()

cetak_string()
```

```
>>>
Ini adalah fungsi yang mencetak string
Silahkan masukkan data
Nama:Hikmah Miladiyah
NRP:2210100046
>>>
```

## Latihan 5.2

```
#Program 5.2
def cetak_string(par1,par2):
   print "Nama mahasiswa adalah", par1
   print "NRP mahasiswa adalah", par2

def hitung(a,b):
   print "Hasil penjumlahan",a,"+",b,"adalah",(a+b)

#main program
nama=raw_input("Nama=")
nrp=raw_input("NRP=")
cetak_string(nama,nrp)
bil1=10
bil2=12
hitung(bil1,bil2)
```

```
>>>
Nama=Hikmah Miladiyah
NRP=2210100046
Nama mahasiswa adalah Hikmah Miladiyah
NRP mahasiswa adalah 2210100046
Hasil penjumlahan 10 + 12 adalah 22
>>>
```

Latihan 5.3

```
#Program 5.3
def tambah(a,b):
   jum=a+b
   return jum
def kurang(c,d):
   return c-d
bil1=input("Masukkan nilai A:")
bil2=input("Masukkan nilai B:")
hasil=tambah(bil1,bil2)
print "Hasil penjumlahan :",hasil
print "Hasil pengurangan :",kurang(bil1,bil2)
```

```
>>>
Masukkan nilai A:2
Masukkan nilai B:3
Hasil penjumlahan : 5
Hasil pengurangan : -1
>>>
```

Latihan 5.4

```
#Program 5.4
def tambah_kurang(a,b):
   return [a+b,a-b]
bil1=input("Masukkan nilai A:")
bil2=input("Masukkan nilai B:")
[plus,minus]=tambah_kurang(bil1,bil2)
print "Hasil penjumlahan :",plus
print "Hasil pengurangan :",minus
```

```
>>>
Masukkan nilai A:4
Masukkan nilai B:6
Hasil penjumlahan : 10
Hasil pengurangan : -2
>>>
```

Latihan 5.5

```
#Program 5.5
def faktorial(nn):
   if nn<=1:
      return 1
```

```
    else:
        f=nn*faktorial(nn-1)
        return f
N=input("Masukkan integer=")
print "Faktorial dari",N,"adalah",faktorial(N)
```

```
>>>
Masukkan integer=4
Faktorial dari 4 adalah 24
>>> ================================ RESTART
>>>
Masukkan integer=6
Faktorial dari 6 adalah 720
>>>
```

TUGAS

Nomer 1

```
#Program Tugas 5.6.1
#Nomer 1
print "Fungsi yang menjumlahkan 2 integer"
def f(a,b):
    f=a+b
    print f
a=input("a=")
b=input("b=")
f(a,b)

print"----------selesai----------","\n"
```

```
>>>
Fungsi yang menjumlahkan 2 integer
a=2
b=6
8
----------selesai----------

>>>
```

Nomer 2

```
#Program Tugas 5.6.2
#Nomer 2
print "Fungsi yang menukar isi dua buah variabel string"
def v(a,b):
    c=a
    d=b
    a=d
```

```
    b=c
    print "a=",a," dan ","b=",b
a=raw_input("masukkan a:")
b=raw_input("masukkan b:")
v(a,b)

print"----------selesai----------","\n"
```

```
>>>
Fungsi yang menukar isi dua buah variabel string
masukkan a:9
masukkan b:2
a= 2  dan  b= 9
----------selesai----------

>>>
```

Nomer 3

```
#Program Tugas 5.6.3
#Nomer 3
print "Fungsi yang mengembalikan nilai KPK dari dua bilangan"
def g(a,b):
    k=a*b
    n=1
    sw=0
    while n<=k:
        if sw==0:
            sisa1=n%a
            sisa2=n%b
            if (sisa1==0) and (sisa2==0) :
                print "KPK dari",a,"dan",b,"=",n
                sw=1
            else:
                n=n+1
        else:
            print "-----selesai-----","\n"
            n=k+1
a=input("masukkan a=")
b=input("masukkan b=")
g(a,b)
```

```
>>>
Fungsi yang mengembalikan nilai KPK dari dua bilangan
masukkan a=25
masukkan b=12
KPK dari 25 dan 12 = 300
-----selesai-----
```

Nomer 4

```
#Program Tugas 5.6.4
#Nomer 4
print "Fungsi yang mengembalikan jumlah huruf vokal dari suatu kalimat"
def h(x):
   m1=0
   m2=0
   m3=0
   m4=0
   m5=0
   m6=0
   for i in (x):
      if (i=="a"):
         m1=m1+1
      if (i=="i"):
         m2=m2+1
      if (i=="u"):
         m3=m3+1
      if (i=="e"):
         m4=m4+1
      if (i=="o"):
         m5=m5+1
      else:
         m6=0
   print "Jumlah huruf vokalnya ada:",m1+m2+m3+m4+m5+m6
x=raw_input("masukkan x=")
h(x)

print"----------selesai----------","\n"
```

```
>>>
Fungsi yang mengembalikan jumlah huruf vokal dari suatu kalimat
masukkan x=saya anak mama
Jumlah huruf vokalnya ada: 6
----------selesai----------

>>>
```