Nama : Rey Babul Rizki
NPM : G1F021027
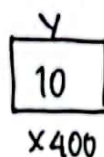Mata kuliah : Algoritma dan Struktur Data
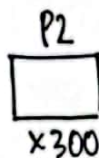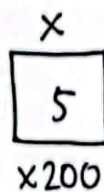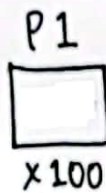
Tugas 2

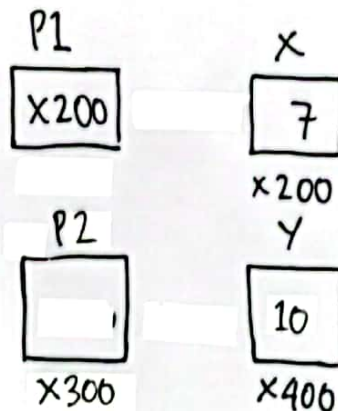– Exercise 1

Dictionary
x, y : integer
$P1, P2$: Pointer to integer

Algorithm
$x \leftarrow 5$
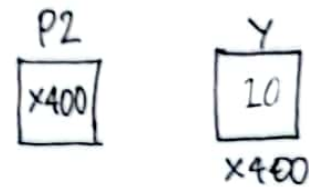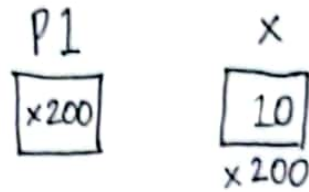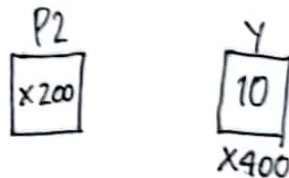$y \leftarrow 10$

P1		x
		5
x100		x200

P2		y
		10
x300		x400

1). $P1 \leftarrow \&x$
    $*P1 \leftarrow 7$

P1		x
x200		7
		x200

P2		y
		10
x300		x400

2). $P2 \leftarrow \&Y$
   $x \leftarrow *P2$

P1
| x200 |

x
| 10 |
x 200

P2
| x400 |

Y
| 10 |
x400

3). $x \leftarrow Y$
   $P1 \leftarrow \&Y$
   $P2 \leftarrow \&X$

P1
| x400 |

x
| 10 |
x 200

P2
| x200 |

Y
| 10 |
x400

4). $P2 \leftarrow \&x$
   $P1 \leftarrow P2$
   $*P2 \leftarrow 6$

P1
| x200 |

x
| 6 |
x200

P2
| x200 |

Y
| 10 |
x400
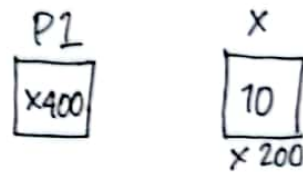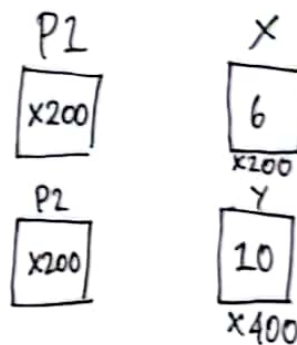
– Exercise 2

Dictionary
   x,y : integer
   P1,P2 : Pointer to integer
Algorithm
   $x \leftarrow 5$
   $y \leftarrow 10$

P1
| |
x100

x
| 5 |
x200

P2
| |
x300

Y
| 10 |
x400

1). P2 ← &Y
    P2 ← &X
    *P2 ← *P2

P1
| X400 |
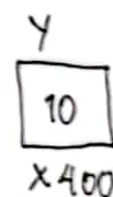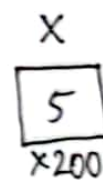
X
| 5 |
X260

P2
| X200 |

Y
| 5 |
X400

2). P2 ← &x
    *P2 ← 7
    P1 ← P2

P1
| X200 |

X
| 7 |
X200

P2
| X200 |

Y
| 5 |
X400

3). P1 ← &X
    *P1 ← Y

P1
| X200 |

X
| 5 |
X200

P2
| X260 |

Y
| 5 |
X400

- Exercise 3

What Is The Output?					
a	b	c	p1	p2	p3
10	15	27	0x6ffdec	0x6ffdec	0x6ffdec
27	8		0x6ffde8		

```
C:\Users\daikomputer\Downloads\Exercise3.exe
Nilai a : 10
Nilai b : 15
Nilai p1 : 0x6ffdec
Nilai p2 : 0x6ffdec
Nilai c : 27
Nilai p1 : 0x6ffde8
Nilai a : 27
Nilai p3 : 0x6ffdec
Nilai b : 8

---------------------------------
Process exited after 0.08999 seconds with return value 0
Press any key to continue . . .
```

- Exercise 4

What Is The Output?					
a	b	c	p1	p2	p3
10	15	27	0x6ffdf4	0x6ffdf0	0x6ffdf0
27	6	27			0x6ffdec
15					

```
C:\Users\daikomputer\Downloads\Exercise4.exe
Nilai a : 10
Nilai b : 15
Nilai c : 27
Nilai p1 : 0x6ffdf4
Nilai p2 : 0x6ffdf0
Nilai a : 27
Nilai a : 15
Nilai b : 6
Nilai p3 : 0x6ffdf0
Nilai p3 : 0x6ffdec
Nilai c : 27

---------------------------------
Process exited after 0.1195 seconds with return value 0
Press any key to continue . . . _
```