**TUGAS PRAKTIKUM 24**

**POINTER 1**



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1. Tugas Pendahuluan.
   1. A. Listing

main()

{

int y, x = 87;

int \*px;

px = &x;

y = \*px;

printf("Alamat x = %p\n", &x);

printf("Isi px = %p\n", px);

printf("Isi x = %d\n", x);

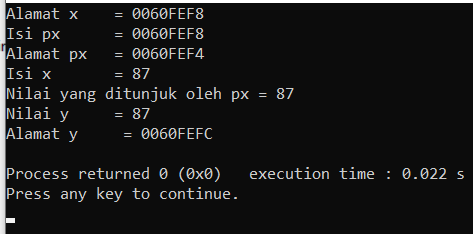
printf("Nilai yang ditunjuk oleh px = %d\n", \*px);

printf("Nilai y = %d\n", y);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| x | 0060FEF8 | 87 |
| px | 0060FEF4 | 0060FEF8 |
| y | 0060FEFC | 87 |

1. Output

.

* 1. A. Listing

main()

{

float \*pu, nu;

double u = 1234.0;

pu = &u;

nu = \*pu;

printf("Alamat dari u = %p\n", &u);

printf("Isi pu = %p\n", pu);

printf("Isi u = %lf\n", u);

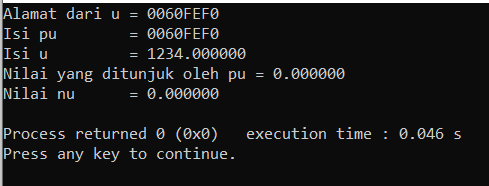
printf("Nilai yang ditunjuk oleh pu = %f\n", \*pu);

printf("Nilai nu = %f\n", nu);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| u | 0060FEF0 | 1234.0 |
| pu | 0060FEFC | 0060FEF0 |
| nu | 0060FEF8 | 0.0000 |

1. Output



* 1. A.Listing

main()

{

float d = 54.5f, \*pd;

printf("Isi d mula-mula = %g\n", d);

pd = &d;

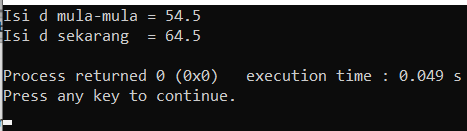
\*pd += 10;

printf("Isi d sekarang = %g\n", d);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| d | 0060FEFC | ~~54.5~~ 64.5 |
| pd | 0060FEF8 | 0060FEFC |

B.Output



* 1. Listing

main()

{

int z = 20, s = 30, \*pz, \*ps;

pz = &z;

ps = &s;

\*pz += \*ps;

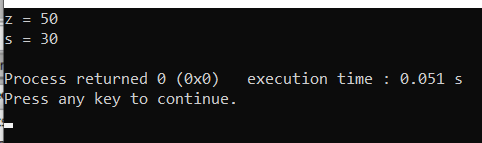
printf("z = %d\n", z);

printf("s = %d\n", s);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| z | 0060FEFC | ~~20~~ 50 |
| s | 0060FEF8 | 30 |
| pz | 0060FEF4 | 0060FEFC |
| ps | 0060FEF0 | 0060FEF8 |

B.Output



* 1. Listing

main()

{

char c = 'Q', \*cp = &c;

printf("%c %c\n", c, \*cp);

c = '/';

printf("%c %c\n", c, \*cp);

\*cp = '(';

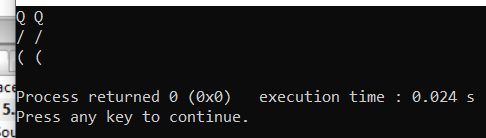
printf("%c %c\n", c, \*cp);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| c | 0060FEFF | ~~Q~~ ~~/~~ ( |
| cp | 0060FEF8 | 0060FEFF |

Screenshot from 2020-12-07 10-17-59

B.Analisa



* 1. Listing

main()

{

int x = 1, y = 2, \*ip;

ip = &x;

y = \*ip;

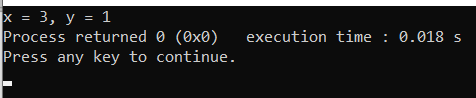
\*ip = 3;

printf(“x = %d, y = %d”, x, y);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| x | 0060FEFC | ~~1~~ 3 |
| y | 0060FEF8 | ~~2~~ 1 |
| ip | 0060FEF4 | 0060FEFC |

B.Output



* 1. Listing

main()

{

int i1, i2, \*p1, \*p2;

i1 = 9;

p1 = &i1;

i2 = \*p1 / 2 – 2 \* 3;

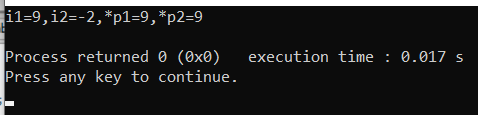
p2 = p1;

printf("i1=%d,i2=%d,\*p1=%d,\*p2=%d\n",i1,i2,\*p1,\*p2);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Isi |
| i1 | 0060FEFC | 9 |
| i2 | 0060FEF8 | -2 |
| p1 | 0060FEF4 | 0060FEFC |
| p2 | 0060FEF0 | 0060FEFC |

B. Output



* 1. Listing

main()

{

int count = 10, \*temp, sum = 7;

temp = &count;

\*temp = 32;

temp = &sum;

\*temp = count;

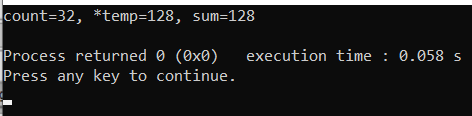
sum = \*temp \* 4;

printf("count=%d, \*temp=%d, sum=%d\n", count,\*temp, sum );

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| count | 0060FEFC | ~~10~~ 32 |
| temp | 0060FEF8 | ~~0060FEFC~~  0060FEF4 |
| sum | 0060FEF4 | ~~7 32~~ 128 |

B. Output



* 1. Listing

main()

{

int count = 13, sum = 9, \*x, \*y;

x = &count;

\*x = 27;

y = x;

x = &sum;

\*x = count;

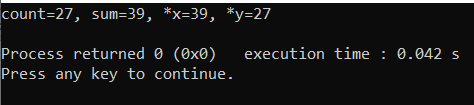
sum = \*x / 2 \* 3;

printf(“count=%d, sum=%d, \*x=%d, \*y=%d\n”, count,sum,\*x,\*y);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| count | 0060FEFC | ~~13~~ 27 |
| sum | 0060FEF8 | ~~9~~ ~~27~~ 39 |
| x | 0060FEF4 | ~~0060FEFC~~  0060FEF8 |
| y | 0060FEF0 | 0060FEFC |

B. Output



* 1. Listing

int r, q = 7;

int go\_crazy(int \*, int \*);

main()

{

int \*ptr1 = &q;

int \*ptr2 = &q;

r = go\_crazy(ptr1, ptr2);

printf("q=%d, r=%d, \*ptr1=%d,\*ptr2=%d\n",q,r,\*ptr1,\*ptr2);

ptr2 = &r;

go\_crazy(ptr2, ptr1);

printf("q=%d, r=%d, \*ptr1=%d, \*ptr2=%d\n",q,r,\*ptr1,\*ptr2);

}

int go\_crazy(int \*p1, int \*p2)

{

int x = 5;

r = 12;

\*p2 = \*p1 \* 2;

p1 = &x;

return \*p1 \* 3;

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| r | 00405050 | ~~12~~ ~~15~~ 12 |
| q | 00402000 | ~~7~~ ~~14~~ 24 |
| x | 0060FEBC | 5 |
| ptr1 | 0060FEFC | 00402000 |
| ptr2 | 0060FEF8 | ~~00402000~~  00405050 |
| p1 | 0060FED0 | ~~00402000~~  ~~0060FEBC~~  ~~00405050~~  0060FEBC |
| p2 | 0060FED4 | 00402000 |

B. Output

