**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 |



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

