**TUGAS PRAKTIKUM 27**

**POINTER 4**



**Nama : Devafilla Rizqy Santosa**

**Kelas : 1 D4 Teknik Informatika A**

**NRP : 3120600026**

1. Tugas Pendahuluan.
   1. A. Listing

#include <stdio.h>

void naikkan\_nilai(int \*x, int \*y);

main() {

int a = 3;

int b = 7;

printf("SEMULA : a = %d b = %d\n", a, b);

naikkan\_nilai(&a, &b);

printf("KINI : a = %d b = %d\n", a, b);

}

void naikkan\_nilai(int \*x, int \*y){

\*x = \*x + 2;

\*y = \*y + 2;

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| a | 62FE1C | 3 |
| b | 62FE18 | 7 |
| \*x | 62FDF0 | 62FE1C |
| \*y | 62FDF8 | 62FE18 |
| a | 62FE1C | 5 |
| b | 62FE18 | 9 |

1. Output

Screenshot from 2020-12-17 22-45-51

* 1. A. Listing

#include <stdio.h>

char \*nama\_bulan(int n);

main(){

int bl;

printf("Bulan 1..12 : ");

scanf("%d", &bl);

printf("Bulan ke-%d adalah %s\n", bl, nama\_bulan(bl));

}

char \*nama\_bulan(int n){

static char \*bulan[] = {

"Ngawur",

"Januari",

"Februari",

"Maret",

"April",

"Mei",

"Juni",

"Juli",

"Agustus",

"September",

"Oktober",

"November",

"Desember"

};

return ((n<1||n>12) ? bulan[0] : bulan[n]);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| 0 | 62FE1C | 0 |
| bln | 403040 | Ngawur |
| 1 | 62FE1C | 1 |
| bln | 403048 | Januari |
| 2 | 62FE1C | 2 |
| bln | 403050 | Februari |
| 3 | 62FE1C | 3 |
| bln | 403058 | Maret |
| 4 | 62FE1C | 4 |
| bln | 403060 | April |
| 5 | 62FE1C | 5 |
| bln | 403068 | Mei |
| 6 | 62FE1C | 6 |
| bln | 403070 | Juni |
| 7 | 62FE1C | 7 |
| bln | 403078 | Juli |
| 8 | 62FE1C | 8 |
| bln | 403080 | Agustus |
| 9 | 62FE1C | 9 |
| bln | 403088 | September |
| 10 | 62FE1C | 10 |
| bln | 403090 | Oktober |
| 11 | 62FE1C | 11 |
| bln | 403098 | November |
| 12 | 62FE1C | 12 |
| bln | 4030A0 | Desember |

1. Output

Screenshot from 2020-12-17 22-52-10

* 1. A.Listing

#include <stdio.h>

char strA[80] = "A string to be used for demonstration";

char strB[80];

main(){

char \*pA, \*pB;

puts(strA);

pA = strA;

puts(pA);

pB = strB;

putchar('\n');

while(\*pA != '\0')

\*pB++ = \*pA++;

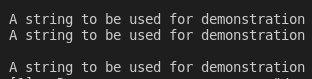
\*pB = '\0';

puts(strB);

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| strA | 403040 | A string to be used for demonstration |
| strB | 407A40 | A string to be used for demonstration |
| \*pA | 62FE10 | 403040 |
| \*pB | 62FE10 | 407A40 |

B.Output



* 1. Listing

#include <stdio.h>

char \*my\_strcpy(char \*, char \*);

main(){

char strA[80]="A string to be used for demonstration";

char strB[80];

my\_strcpy(strB, strA);

puts(strB);

}

char \*my\_strcpy(char \*destination, char \*source) {

char \*p = destination;

while (\*source != '\0')

\*p++ = \*source++;

\*p = '\0';

return destination;

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| strA | 62FDD0 | A string to be used for demonstration |
| strB | 62FD80 | A string to be used for demonstration |
| destinatiaon | 62FD60 | 62FD80 |
| source | 62FD68 | 62FDD0 |
| p | 62FD48 | 2FD80 |

B.Output

Screenshot from 2020-12-18 15-57-55

* 1. Listing

#include <stdio.h>

char \*my\_strcpy(char \*, char \*);

main(){

char strA[80]="A string to be used for demonstration";

char strB[80];

my\_strcpy(strB, strA);

puts(strB);

}

char \*my\_strcpy(char dest[], char source[]){

int i = 0;

while (source[i] != '\0')

{

dest[i] = source[i];

i++;

}

dest[i] = '\0';

return dest;

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| strA | 62FDD0 | A string to be used for demonstration |
| strB | 62FD80 | A string to be used for demonstration |
| dest | 62FD60 | A string to be used for demonstration |
| source | 62FD68 | A string to be used for demonstration |
| i | 62FD4C | - |

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

* 1. Listing

#include <stdio.h>

#include <stdlib.h>

int rotasi(int \*pA, int \*pB, int \*pC);

int main(){

int a, b, c;

a = 5;

b = 10;

c = 15;

rotasi(&a, &b, &c);

}

int rotasi(int \*pA, int \*pB, int \*pC){

int x;

x = \*pA;

\*pA = \*pB;

\*pB = \*pC;

\*pC = x;

}

|  |  |  |
| --- | --- | --- |
| Variabel | Alamat | Nilai |
| a | 62FE1C | 5 |
| b | 62FE18 | 10 |
| c | 62FE14 | 15 |
| pA | 62FDF0 | 62FE1C |
| pB | 62FDF8 | 62FE18 |
| pC | 2FE00 | 62FE14 |
| x | 62FDDC | 5 |