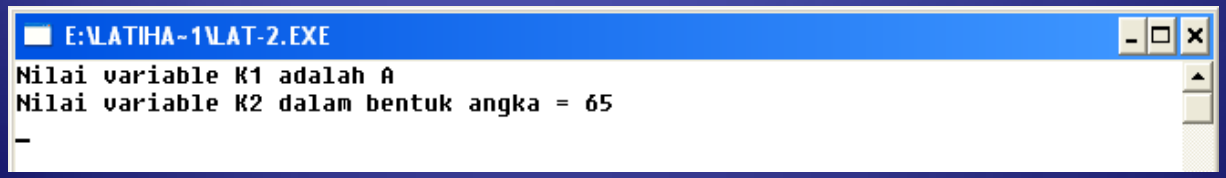
LAB PEMROGRAMAN I

Type data, variabel & operator

Dosen : Eko Budi Setiawan

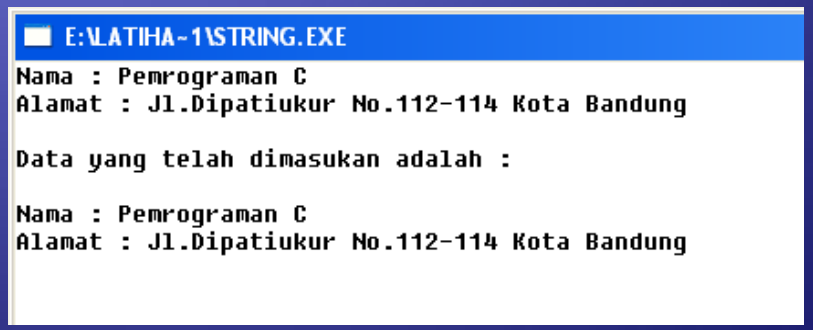
Type Data

```
//Program Ke-2 Nama File : Lat-2.CPP
#include <stdio.h>
#include <conio.h>
main()
{
     char k1,k2;
     k1='A';
     k2=k1;
     printf("Nilai variable K1 adalah %c\n",k1);
     printf("Nilai variable K2 dalam bentuk angka =
          %d\n",k2);
     getch();
     return 0;
}
```



Type Data

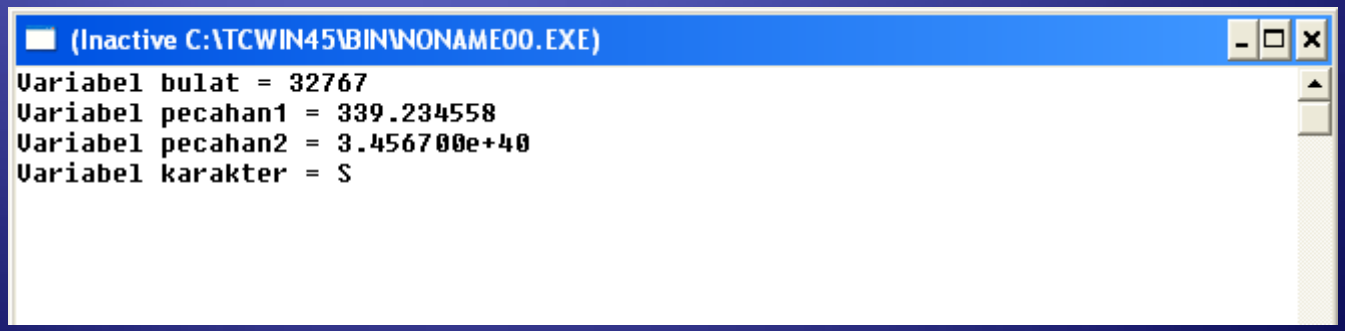
```
#include <stdio.h>
#include <conio.h>
main()
{
    char nama[50];
    char alamat[50];
    printf("Nama : ");gets(nama);
    printf("Alamat : ");gets(alamat);
    printf("\nData yang telah dimasukan adalah : \n \n");
    printf("Nama : %s\nAlamat : %s\n",nama,alamat);
    getch();
    return 0;
}
```



Type Data

```
/* File program : data1.c */
#include <stdio.h>
#include <conio.h>

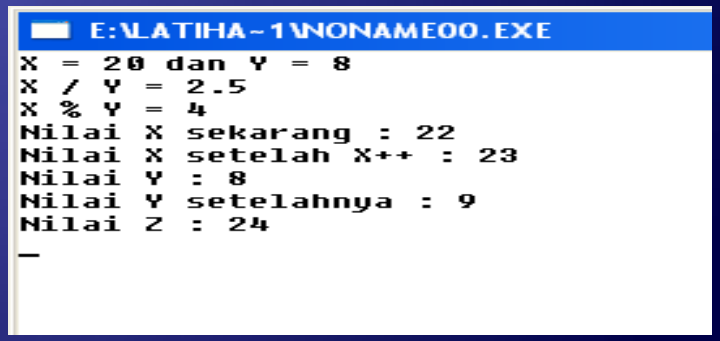
main()
{
      int var_bulat = 32767;
      float var_pecahan1 = 339.2345678;
      double var_pecahan2 = 3.4567e+40;
      char var_karakter = 'S';
      printf("Variabel bulat = %d\n", var_bulat);
      printf("Variabel pecahan1 = %f\n", var_pecahan1);
      printf("Variabel pecahan2 = %e\n", var_pecahan2);
      printf("Variabel karakter = %c\n", var_karakter);
      return 0;
      getch();
}
```



Operator

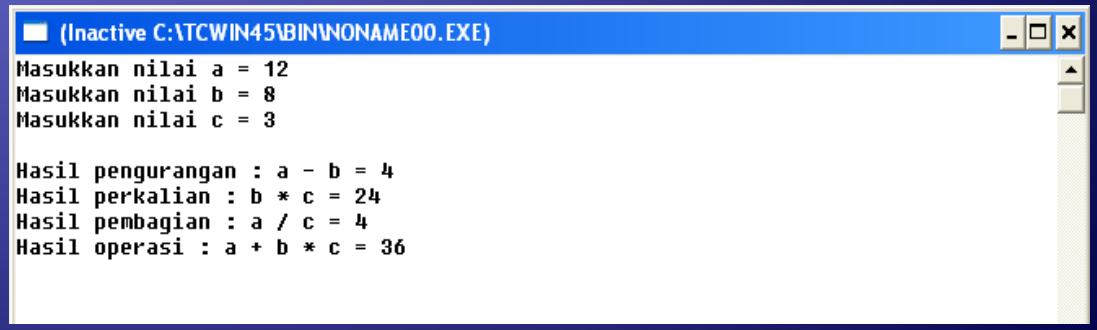
```
/*
  Program operator
  Nama File: operator1.cpp
*/
#include <stdio.h>
#include <conio.h>

main()
{
     int x=20, y=8,z;
     float w;
     clrscr();
     printf("X = %d dan Y = %d\n",x,y);
     w=float(x)/y;
     printf("X / Y = %3.1f\n",w);
     printf("X %% Y = %d\n",x%y);
     x+=2;
     printf("Nilai X sekarang : %i\n",x);
     x++;
     printf("Nilai X setelah X++ : %i\n",x);
     printf("Nilai Y : %d\n",y++);
     printf("Nilai Y setelahnya : %d\n",y);
     z=++x;
     printf("Nilai Z : %d\n",z);
     getch();
     return 0;
}
```



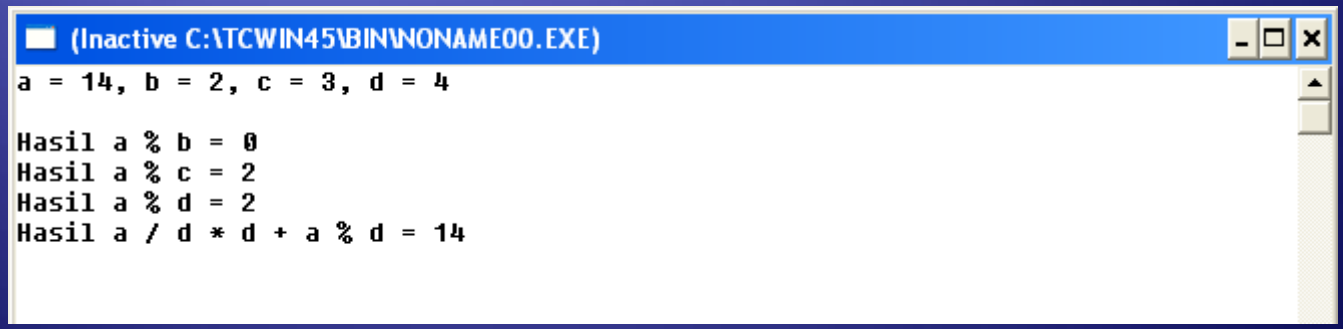
Operator

```
/* File program : operator2.cpp */
#include <stdio.h>
main()
{
    int a, b, c, hasil;
    printf("Masukkan nilai a = "); scanf("%d", &a);
    printf("Masukkan nilai b = "); scanf("%d", &b);
    printf("Masukkan nilai c = "); scanf("%d", &c);
    printf("\n");
    hasil = a - b;
    printf("Hasil pengurangan : a - b = %d\n", hasil);
    printf("Hasil perkalian : b * c = %d\n", b * c);
    hasil = a / c;
    printf("Hasil pembagian : a / c = %d\n", hasil);
    printf("Hasil operasi : a + b * c = %d\n", a + b * c);
    return 0;
}
```



Operator

```
/* File program : modulus.c */
#include <stdio.h>
main()
{
    int a = 14, b = 2, c = 3, d = 4;
    printf("a = %d, b = %d, c = %d, d = %d\n\n", a, b, c, d);
    printf("Hasil a %% b = %d\n", a % b);
    printf("Hasil a %% c = %d\n", a % c);
    printf("Hasil a %% d = %d\n", a % d);
    printf("Hasil a / d * d + a %% d = %d\n",a / d * d + a % d);
    return 0;
}
```



Latihan Program

```
/*program menghitung luas dan keliling lingkaran */
#include <stdio.h>
main()
 {
      float luas, phi, keliling;
      int jari;
      phi = 3.14;
      printf("Masukkan jari-jari:");scanf("%d",&jari);
      luas = phi*jari*jari;
      keliling = 2*phi*jari;
      printf("Jadi luasnya adalah : %f\n",luas);
      printf("Jadi kelilingnya adalah : %f\n",keliling);
      getch();
      return 0;
 }
```

Latihan Program

```
/*program konversi suhu */
#include <stdio.h>
main()
 {
    float  C,F;
    printf("Masukkan Nilai Suhu Ke dalam Celcius:");scanf("%f",&C);
    F=C*1.8+32;
    printf("Jadi suhu setelah di konversi ke Farenheit adalah : %f"
   ,F);
    return 0;
 }
```

Latihan Program

```
/*program konversi suhu */
#include <stdio.h>
main()
 {
    float  C,F;
    printf("Masukkan Nilai Suhu Ke dalam Celcius:");scanf("%f",&C);
    F=C*1.8+32;
    printf("Jadi suhu setelah di konversi ke Farenheit adalah : %f"
   ,F);
    return 0;
 }
```