

**MALATYA
TURGUT ÖZAL ÜNİVERSİTESİ
MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ
BİLGİSAYAR MÜHENDİSLİĞİ
ALGORİTMA VE PROGRAMLAMA 2**

Gösterge (Pointer) Kavramı - Uygulama

```
1 #include <iostream>
2 using namespace std;
3
4 int main(){
5     int sayi = 558;
6     cout << "Degisken degeri: " << sayi << endl;
7     cout << "Degisken adresi: " << &sayi << endl;
8     cout << endl;
9     int *ptr = &sayi;
10    cout << "Pointer'in gosterdigi adres: " << ptr << endl;
11    cout << "Pointer'in gosterdigi adres degeri: " << *ptr << endl;
12    cout << "Pointer adresi: " << &ptr;
13    return 0;
14 }
```

C:\Users\monster\Desktop\ders slaytlar²\algoritma

Degisken degeri: 558
Degisken adresi: 0x6ffe0c

Pointer'in gosterdigi adres: 0x6ffe0c
Pointer'in gosterdigi adres degeri: 558
Pointer adresi: 0x6ffe00

Process exited after 0.1281 seconds with
Press any key to continue . . .

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a=500;
6      int *b;
7      b=&a;
8      cout<<"Adres a="<<b<<endl;
9      cout<<"Adres a+1="<<b+1<<endl;
10     cout<<"Adres a-1="<<b-1<<endl;
11     cout<<endl<<endl;
12     cout<<"Deger a="<<*b<<endl;
13     cout<<"Deger a+1="<<*b+1<<endl;
14     cout<<"Deger a+1="<<*b-1<<endl;
15
16
17     return 0;
18 }
```

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Adres a=0x6ffe04
Adres a+1=0x6ffe08
Adres a-1=0x6ffe00

Deger a=500
Deger a+1=501
Deger a+1=499

Process exited after
Press any key to cont

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a=500;
6      int *b;
7      b=&a;
8      cout<<"Sonuc 1="<<*b<<endl;
9      cout<<"Sonuc 2="<<++(*b)<<endl;
10     cout<<"Sonuc 3="<<++(*b)<<endl;
11     cout<<"Sonuc 4="<<--(*b)<<endl;
12     cout<<"a="<<a<<endl;
13     cout<<endl<<endl;
14     cout<<"Sonuc 5="<<b<<endl;
15     cout<<"Sonuc 6="<<++b<<endl;
16     cout<<"Sonuc 7="<<++b<<endl;
17     cout<<"Sonuc 8="<<--b<<endl;
18
19
20     return 0;
21 }
```

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Sonuc 1=500

Sonuc 2=501

Sonuc 3=502

Sonuc 4=501

a=501

Sonuc 5=0x6ffe04

Sonuc 6=0x6ffe08

Sonuc 7=0x6ffe0c

Sonuc 8=0x6ffe08

Process exited after

Press any key to co

```
1  #include <iostream>
2  using namespace std;
3  int main(){
4      int sayilar[] = {55, 66, 77, 88, 99, 18};
5      int *ptr = sayilar; // &sayilar[0];
6      cout << "1.eleman: " << *ptr << endl;
7      ptr++;
8      cout << "2.eleman: " << *ptr << endl;
9      cout << "5.eleman: " << *(ptr + 3) << endl;
10     ptr--;
11     cout << "1.eleman: " << *ptr << endl;
12     return 0;
13 }
```

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```
1.eleman: 55
2.eleman: 66
5.eleman: 99
1.eleman: 55
-----
Process exited at
Press any key to
```

```
1  #include <iostream>
2  using namespace std;
3  int main(){
4      int sayilar[] = {55, 66, 77, 88, 99, 18};
5      int *ptr = sayilar;
6      for (int i = 0; i < sizeof(sayilar) / 4; i++){
7          cout << "sayilar[" << i << "] = " << *(ptr + i) << endl;
8      }
9
10     return 0;
11 }
```

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```
sayilar[0] = 55
sayilar[1] = 66
sayilar[2] = 77
sayilar[3] = 88
sayilar[4] = 99
sayilar[5] = 18

-----
Process exited after
Press any key to c
```

```
1  #include <iostream>
2  #include <cstring>
3  using namespace std;
4
5  int main(int argc, char** argv) {
6      char ad_soyad[20];
7      cout<<"isminizi giriniz:";
8      gets(ad_soyad);
9      char *ptr;
10     ptr=ad_soyad;
11     int i;
12     for (i=0;i<=strlen(ad_soyad)-1;i++)
13     {
14         cout<<ptr[i];
15     }
16
17     cout<< endl;
18
19     for (i=strlen(ad_soyad)-1;i>=0;i--)
20     {
21         cout<<ptr[i];
22     }
23
24     return 0;
25 }
```

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```
isminizi giriniz:Ahmet DOĞAN
Ahmet DOĞAN
NAĞOD temhA
-----
Process exited after 5.009 sec
Press any key to continue . .
```