

LAPORAN TUGAS PERTEMUAN 8

PEMROGRAMAN



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1. Program

```
1 using System;
2 namespace pertemuan10
3 {
4     public class PrinterWindows
5     {
6         public string name { get; set; }
7         public string dimention { get; set; }
8
9         public PrinterWindows(string name, string dimention)
10        {
11            this.name = name;
12            this.dimention = dimention;
13        }
14
15        public virtual void show()
16        {
17            Console.WriteLine("{0} display dimention : {1}", this.name, this.dimention);
18        }
19
20        public virtual void print()
21        {
22            Console.WriteLine("{0} printer printing....", this.name);
23        }
24    }
25
26
27
28    public class Epson : PrinterWindows
29    {
30        public Epson(string name, string dimention) : base(name, dimention)
31        {
32            this.name = name;
33            this.dimention = dimention;
34        }
35
36        public override void show()
37        {
38            Console.WriteLine("{0} display dimention : {1}", this.name, this.dimention);
39        }
40
41        public override void print()
42        {
43            Console.WriteLine("{0} printer printing....", this.name);
44        }
45    }
46
47
48
49
50
51    public class Canon : PrinterWindows
52    {
53        public Canon(string name, string dimention) : base(name, dimention)
54        {
55            this.name = name;
56            this.dimention = dimention;
57        }
58
59        public override void show()
60        {
61            Console.WriteLine("{0} display dimention : {1}", this.name, this.dimention);
62        }
63
64        public override void print()
65        {
66            Console.WriteLine("{0} printer printing....", this.name);
67        }
68    }
69
70
71
72
73
74
75    public class Lasetjet : PrinterWindows
76    {
77        public Lasetjet(string name, string dimention) : base(name, dimention)
78        {
79            this.name = name;
80            this.dimention = dimention;
81        }
82
83        public override void show()
84        {
85            Console.WriteLine("{0} display dimention : {1}", this.name, this.dimention);
86        }
87
88        public override void print()
89        {
90            Console.WriteLine("{0} printer printing....", this.name);
91        }
92    }
93
94
95
96
97
98 }
```

Membuat kelas yang bernama parent class yang bernama PrinterWindows yang mempunyai 3 child class, yaitu Epson, Canon, dan LasetJet, 3 child tersebut mengoverrider method yang ada di parent class.

```
1 using pertemuan10;
2
3 internal class Program
4 {
5     private static void Main(string[] args)
6     {
7         Console.WriteLine("Pilih Printer");
8         Console.WriteLine("=====");
9         Console.WriteLine("1. Epson");
10        Console.WriteLine("2. Canon");
11        Console.WriteLine("3. LaserJet");
12
13        Console.Write("Nomor Printer [1..3] : ");
14        int nomorPrinter = Convert.ToInt32(Console.ReadLine());
15
16        PrinterWindows printerWindows = new PrinterWindows("cbdcdbdj", "1100");
17        if (nomorPrinter == 1)
18        {
19            printerWindows = new Epson("Epson", "11*12");
20            printerWindows.show();
21            printerWindows.print();
22        }
23
24        else if (nomorPrinter == 2)
25        {
26            printerWindows = new Canon("Canon", "10*11");
27            printerWindows.show();
28            printerWindows.print();
29        }
30
31        else if (nomorPrinter == 3)
32        {
33            printerWindows = new Canon("LaserJet", "9*10");
34            printerWindows.show();
35            printerWindows.print();
36        }
37
38        Console.ReadLine();
39    }
40 }
41
```

Kemudian pada class program dibuatlah object PrinterWindows, dan dilanjut pembuatan polymorphism untuk object kelas Epson, Canon, dan LasetJet.

Polymorphism dalam C++ adalah kemampuan objek untuk memiliki banyak bentuk atau perilaku yang berbeda. Dalam pemrograman, ini berarti bahwa objek dapat digunakan dengan cara yang sama, meskipun mereka memiliki tipe yang berbeda.

Output :

```
Pilih Printer
=====
1. Epson
2. Canon
3. LaserJet
Nomor Printer [1..3] : 1
Epson display dimention : 11*12
Epson printer printing...
```