

Python Variables, Data Types and Operators

Roman Urdu Study Notes

1. Variables in Python

Variable ek container hota hai jo value store karta hai. Python me variable banane ke liye type likhne ki zarurat nahi hoti.

10 Examples

```
1 x = 10
2 print(x)
3
4 name = "Ali"
5 print(name)
6
7 age = 20
8 print(age)
9
10 salary = 50000
11 print(salary)
12
13 city = "Karachi"
14 print(city)
15
16 a = 5
17 b = 3
18 print(a + b)
19
20 num = 100
21 print(num - 50)
22
23 marks = 85
24 print(marks)
25
26 temperature = 35.5
27 print(temperature)
28
29 status = True
30 print(status)
```

2. Data Types in Python

Data type batata hai ke variable kis type ki value store kar raha hai.

Main data types:

- int (Integer)
- float (Decimal)
- str (String)
- bool (True/False)

10 Examples

```
1 x = 10
2 print(type(x))
3
4 y = 3.14
5 print(type(y))
6
7 name = "Python"
8 print(type(name))
9
10 status = True
11 print(type(status))
12
13 num = -5
14 print(type(num))
15
16 price = 99.99
17 print(type(price))
18
19 text = "Hello"
20 print(type(text))
21
22 flag = False
23 print(type(flag))
24
25 value = 0
26 print(type(value))
27
28 number = 1000
29 print(type(number))
```

3. Operators in Python

Operator value par operation perform karta hai.

Arithmetic Operators

- + (Addition)
- - (Subtraction)
- * (Multiplication)
- / (Division)
- % (Remainder)
- ** (Power)
- // (Floor Division)

10 Examples

```
1 print(5 + 3)
2 print(10 - 2)
3 print(4 * 6)
4 print(20 / 4)
5 print(10 % 3)
6 print(2 ** 3)
7 print(15 // 2)
8 print(7 + 8)
9 print(9 - 4)
10 print(6 * 2)
```

Conclusion

Is document me hum ne cover kiya:

- Variables
- Data Types
- Operators

Student ko chahiye ke har example khud run kare aur values change karke practice kare.