Data types in java

Integer data types

|  |  |  |
| --- | --- | --- |
| Data type | Memory size | Min and max values |
| Byte | 1 byte | -128 to +127 |
| Short | 2 bytes | -32768 to +32767 |
| Int | 4 B | - |
| Long | 8B |  |
|  |  |  |

Float Data Types

|  |  |  |
| --- | --- | --- |
| Float | 4B |  |
| Double | 8B |  |
|  |  |  |

Character DataTypes

Char 2B 0 to 65535

String Data Type

A string represents a group of chractors

String str=”Kiran”;

Boolean DataType

This datatypes represents True or False Values

Ex: Boolean Result=false;

Control Statements

We can Execute statements in the program in Three ways

**1.Sequentional:One by One**

**2.Selective:Choosen set of Statements**

**3.Repitative :Statements execute again and again**

**2.To execute the statements selectively we have to go for control structures**

There different Ctrl Strurectures available in Java

They are

1. **If**
2. **If-else**
3. **If else if**
4. **Switch**

**1.if**

Syntax:

If(condition)

{

If Body;

}

2.if- else

Syntax:

**If(condition)**

**{**

**If Body;**

**}**

**Else**

**{**

**Else Body;**

**}**

**If-else-if**

If(condition)

{

If Body

}

Else if(condition)

{

Else-if Body;

}

Else

{

Else body;

}

Switch

To select one from many we need switch…

Syntax:  
switch(var)

{

Case 1:…………

Break;

Case 2:…………

Break;

Case 3:…………

Break;

Default:…………………..

}

3.Looping Structures

We have 4 looping structures

1.while

2.do-while

3.for

**4.foreach**

1.while

Syntax:

While(condition)

{

While Body;

}

**Do-while**

**Do**

**{**

**Do while Body;**

**}while(Condition);**

**For**

For(Exp1;Exp2;Exp3)

{

For Body;

}