

Basic Fundamental Programming

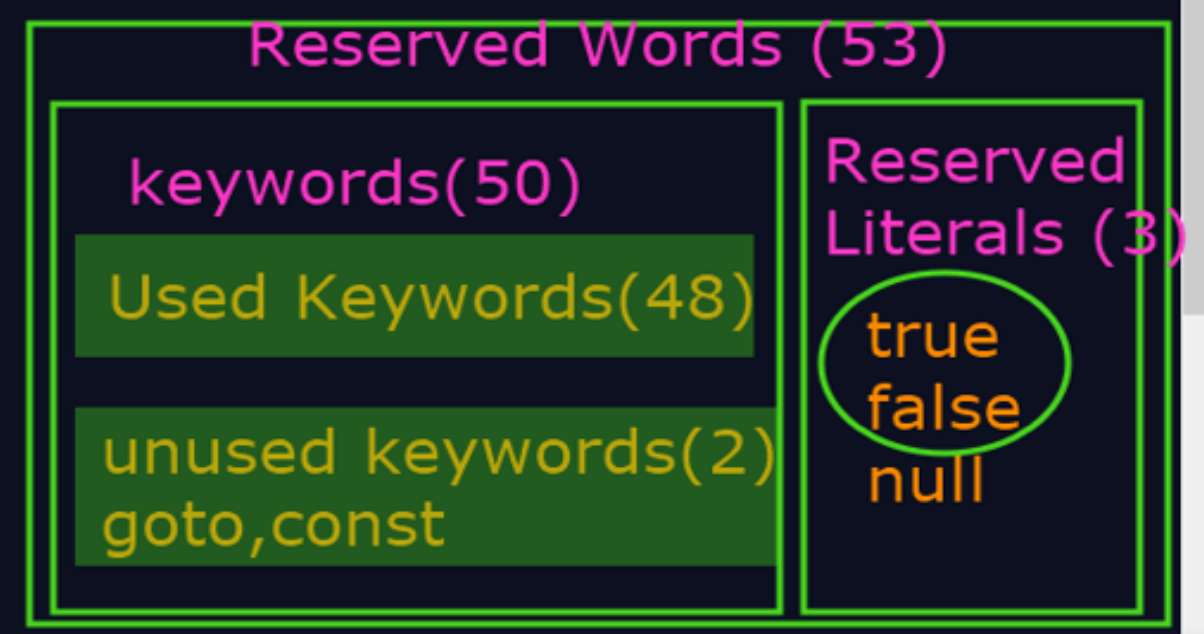
Day 2: Sep 2021

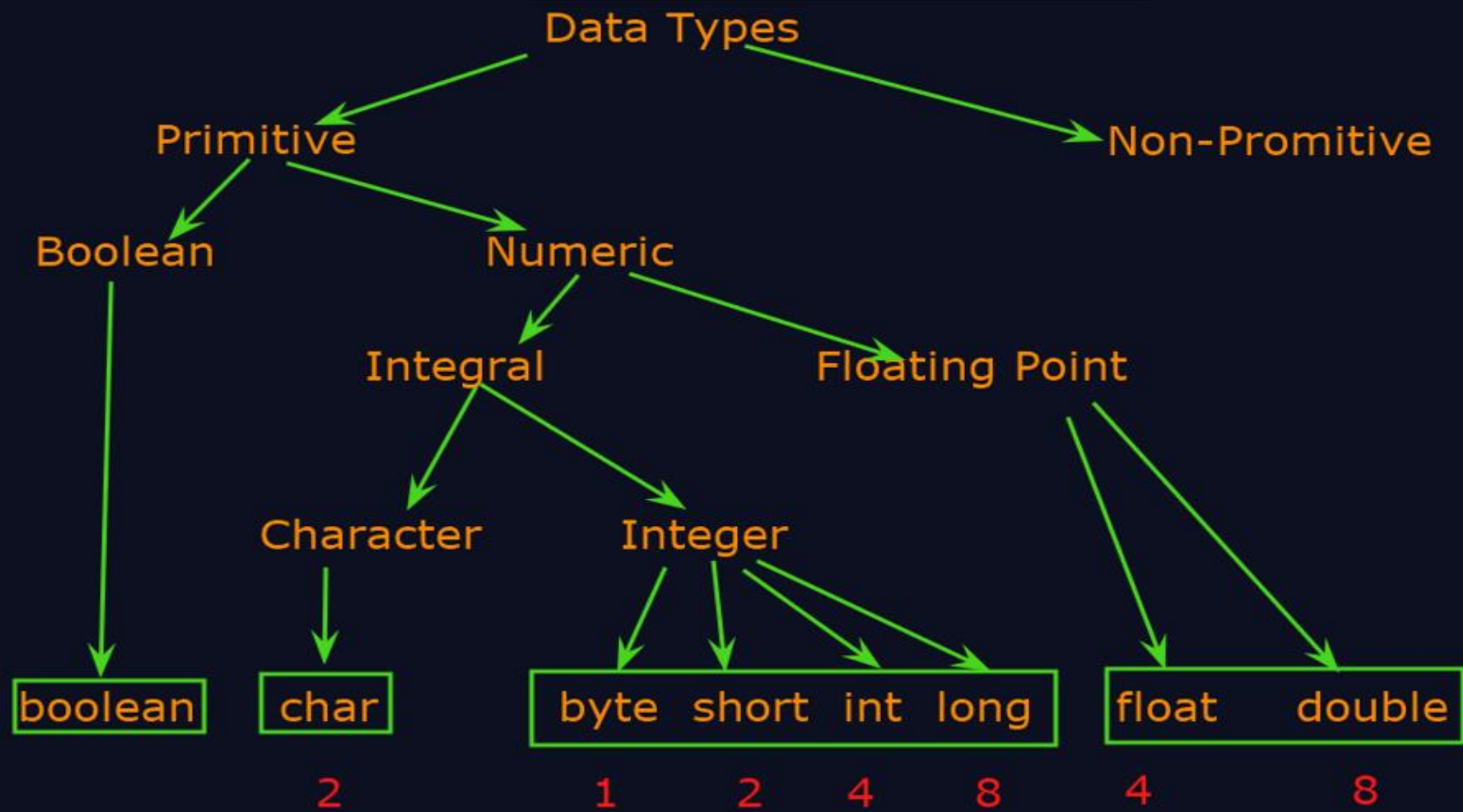
Kiran Waghmare

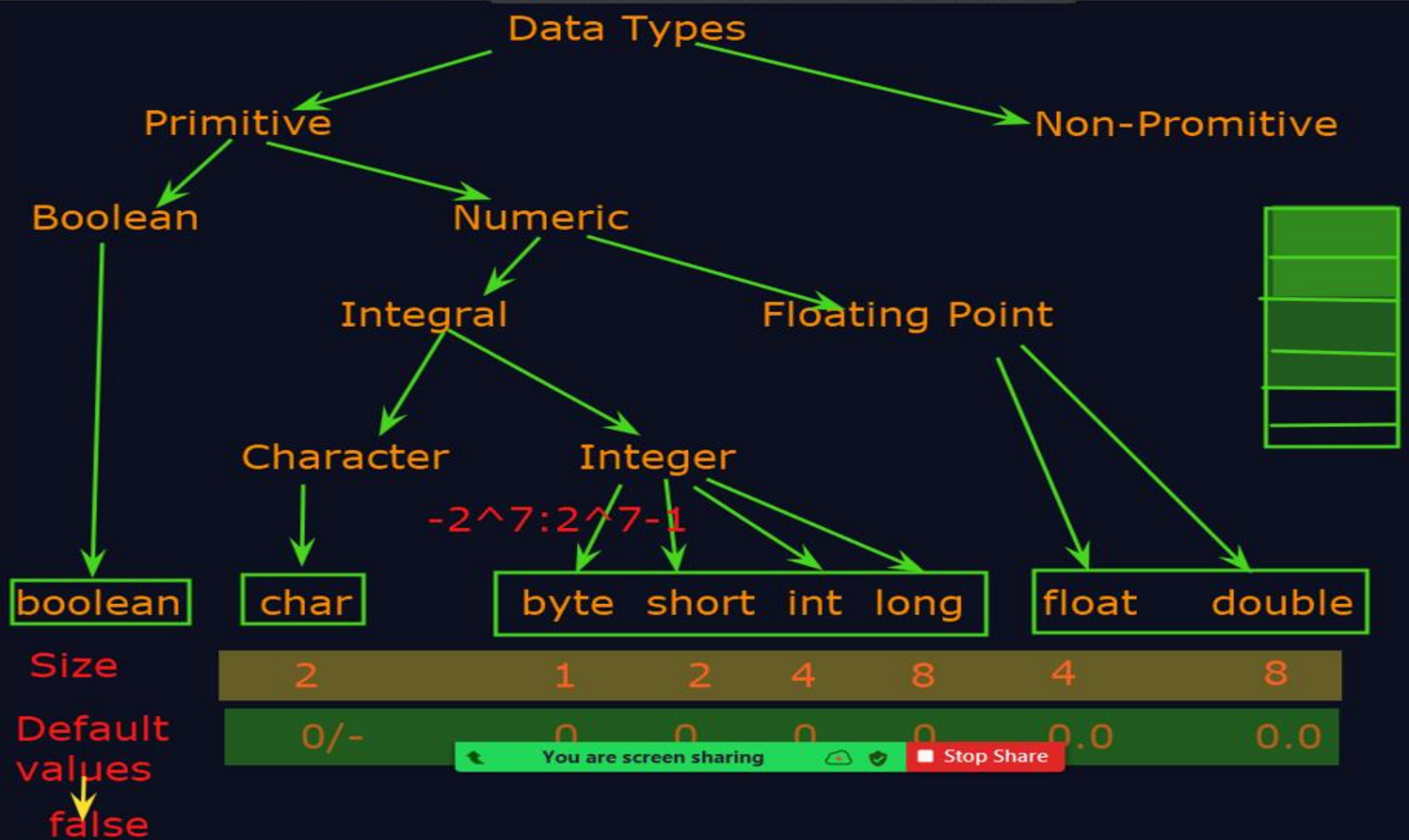


```
1
2 class P4 ✓
3 {
4
5
6 public static void main(String args[]) ✓
7 {
8     int abc=100; ✓
9 }
10 }
11
12
```

- Token
- Identifiers
 - keywords
 - special characters
 - Literals
 - variables
 - Operators







boolean :true/false

boolean flag=true;

boolean flag= True;

```
int x=0;  
if(true)  
{  
    sop("Hi");  
}
```



You are screen sharing



Stop Share

Type casting:

-conversion of one datatype into another

Types of Casting:

1.Implicit/up casting

2.Explicit/down casting

byte -->short -->int --->long --->float --->double

char -->int --->long --->float --->double

```
int i=12;  
float f=i;
```

```
float f=22.34;  
int i=(int)f;
```



```
126 float f=22.34;
```

```
127 int i=(int)f;
```

```
128
```

```
129 Variable:
```

```
130
```

```
131 int x =10;
```

Mouse

Select

Text

Draw

Stamp

Spotlight

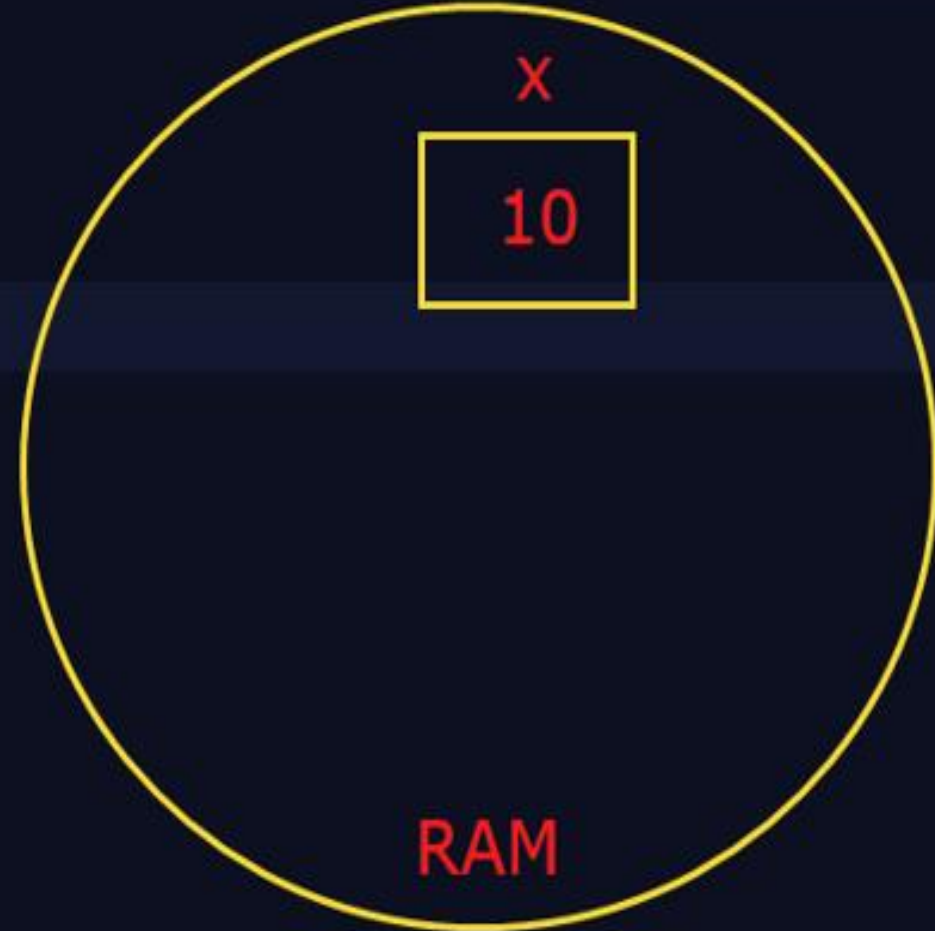
Eraser

Format

Undo



Who can see what you share here? Recording On



```
float f=22.34;  
int i=(int)f;
```

Variable:

Types of Variable:

- 1.Instance variable
- 2.Local variable
- 3.Static variable

```
public static void main()  
{  
    int x,y;  
    int z =x+y;  
}
```

```
class cake
```

```
-static String cakename  
-cakeorderid
```

```
paymentcal()  
{  
    int m;  
}
```



```
float f=22.34;  
int i=(int)f;
```

Variable:

Types of Variable:

- 1.Instance variable
- 2.Local variable
- 3.Static variable

```
class Student  
{  
    int rollno;  
    String name;  
}
```

```
class cake  
-static String cakename  
-cakeorderid  
  
    paymentcal()  
    {  
        int m;  
    }
```

```
public static void main()  
{  
    int x,y;  
    int z =x+y;  
}
```

Operator

Arithmetic Operator

Relational Operator

if(a==b)

if(a!=b)

Logical Operator

if!(x || y)

Bitwise Operator <<, >>, <<<, >>>

x=0100111

y=2

x<<y 0011101

x>>y 1101001

x<<<y

x>>>y

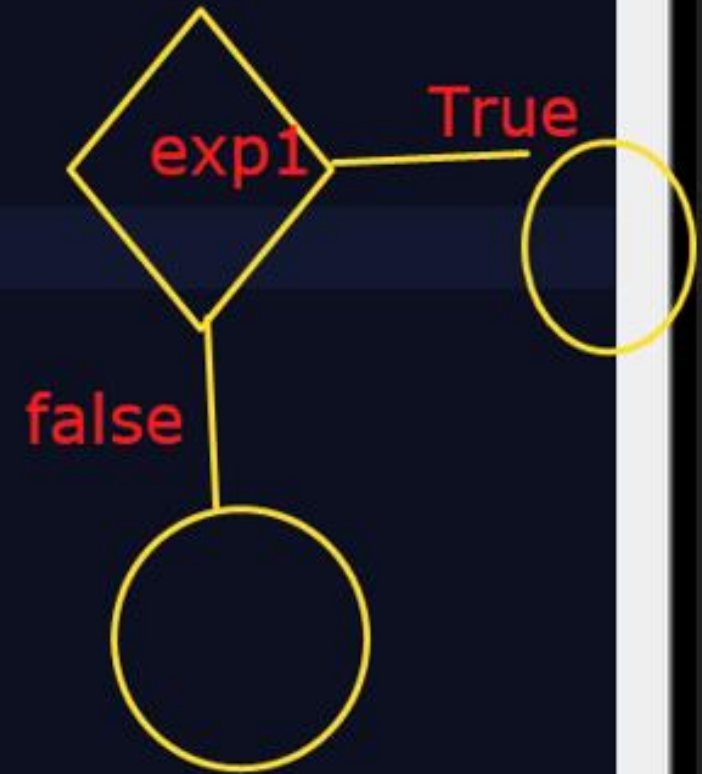
Ternary Operator: Conditional Operator

Syntax:

```
(cond)? true (st1): false(st2)
```



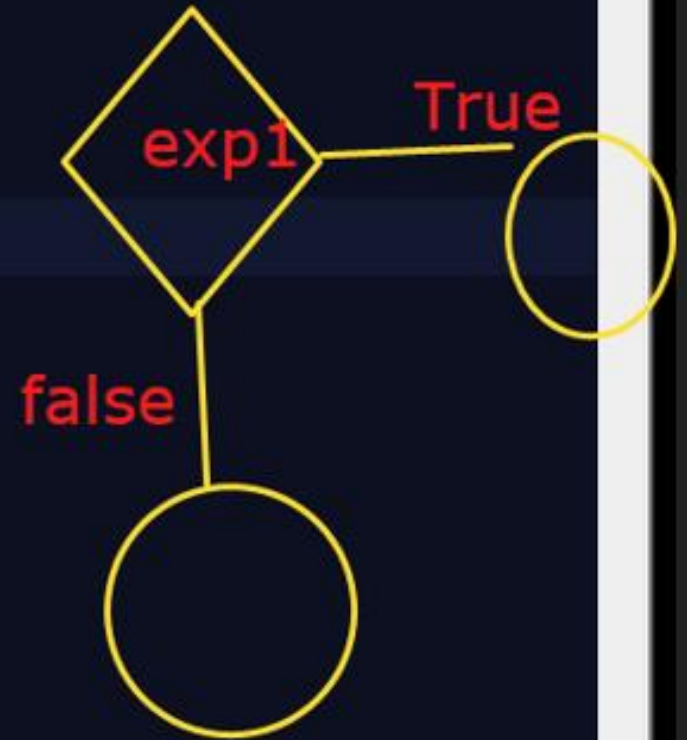
```
((i%2)==0)? "Even": "Odd"
```



Ternary Operator: Conditional Operator

Syntax:

```
(cond)? true (st1): false(st2)
```



```
String s=((i%2)==0)?"Even":"Odd"
```

Scanner Class:

-inbuilt java class

-Package: `import java.util.Scanner;`

`System.out.println();`

`System.in`

keybord---->Komal ---->Program

`String s1="Komal"`

`System.in`

`Scanner s1 = new Scanner(System.in);`

`String str = s1.next();`

Scanner Class:

- inbuilt java class
- Package: `import java.util.Scanner;`

`System.out.println();`

`System.in`

`nextBoolean()`
`nextFloat()`
`nextDouble()`
`next()`
`nextLine()`

keybord---->Komal ---->Program

`String s1="Komal"`

`System.in`

`Scanner s1 = new Scanner(System.in);`

`String str = s1.next();`

`int x = s1.nextInt();`

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