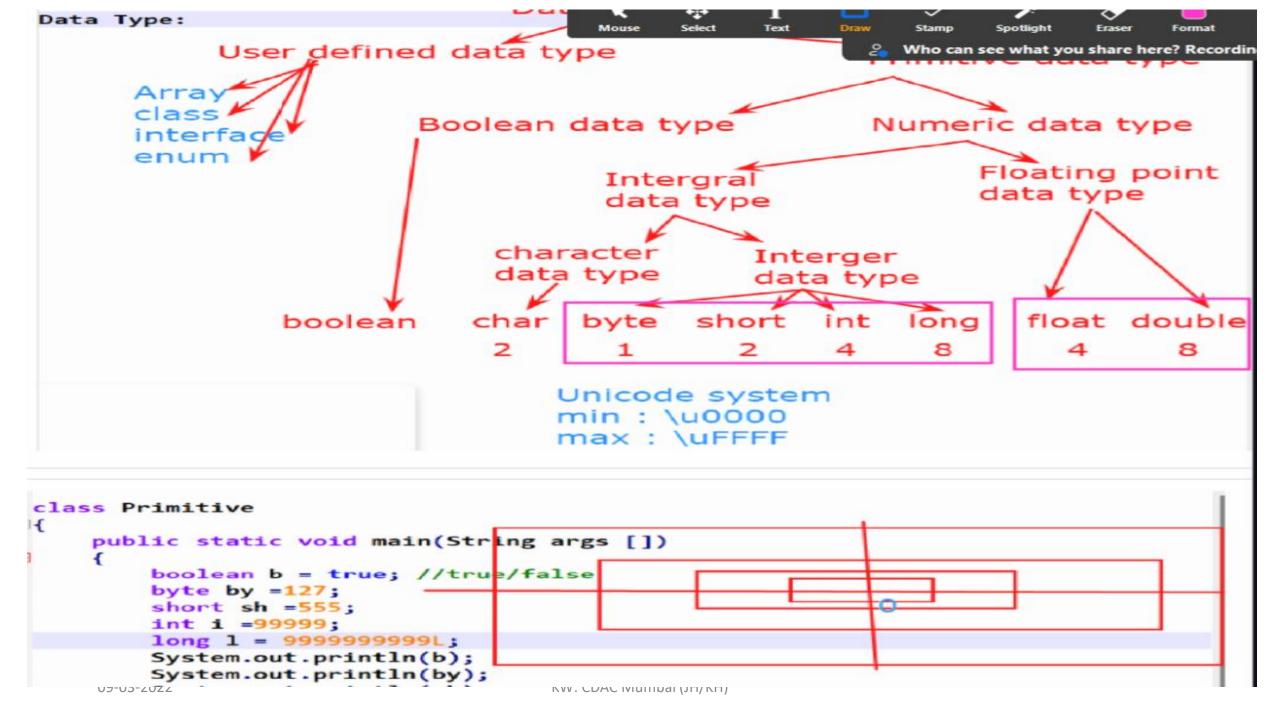


Outlines

- -Class
- -Object
- -Features of Java
- -OOPS concepts
- -Programs



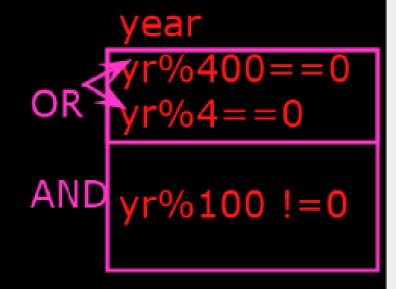


Armstrong Number: Q = 153/10 = 15R = 153%10 = 3135 = 1 + 27 + 125R = 15%10 = 15= 153

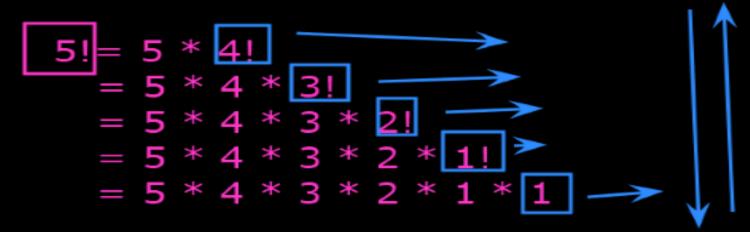
```
import java.util.*;
                                    Select
                                         Text
                                                   Stamp
                                                        Spotlight
                                                              Eraser
                                                  Who can see what you share here? Recording O
class Armstrong
    public static void main (String args[])
         Scanner sc = new Scanner (System.in);
         int n1=sc.nextInt();
         int temp = n1;//153
         int res;
          int sum=0;
         while (n1>0)
              res=n1%10;
              sum=sum+(res*res*res);
              n1=n1/10;
          if(temp == sum)
                   System.out.println("Armstrong Nunber");
         else
                   System.out.println("Not an Armstrong Nunber"
   09-03-2022
                               KW: CDAC Mumbai (JH/KH)
```

```
import java.util.*;
                                            Draw
                                                 Stamp
                                                      Spotlight
                                                Who can see what you share here? Recording Or
class Armstrong
    public static void main (String args[])
         Scanner sc = new Scanner (System.in) h_1 = 1/10 = 0
         int n1=sc.nextInt();
                                                   temp=153
         int temp = n1;//153
                                                   sum=152+1=153
         int res;
         int sum=0;
                                                   res=1
         while (n1>0)
              res=n1%10;
              sum=sum+(res*res*res);
              n1=n1/10;
         if(temp == sum)
                   System.out.println("Armstrong Nunber");
         else
                   System.out.println("Not an Armstrong Nunber"
  09-03-2022
                             KW: CDAC Mumbai (JH/KH)
```

$$if((yr\%400==0)||(yr\%4==0)&&(yr\%100!=0))$$

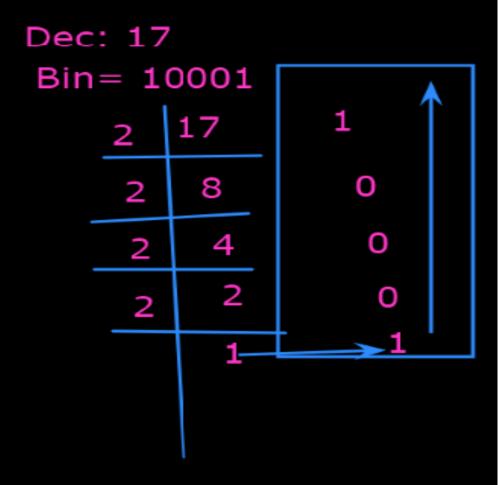


Factorial



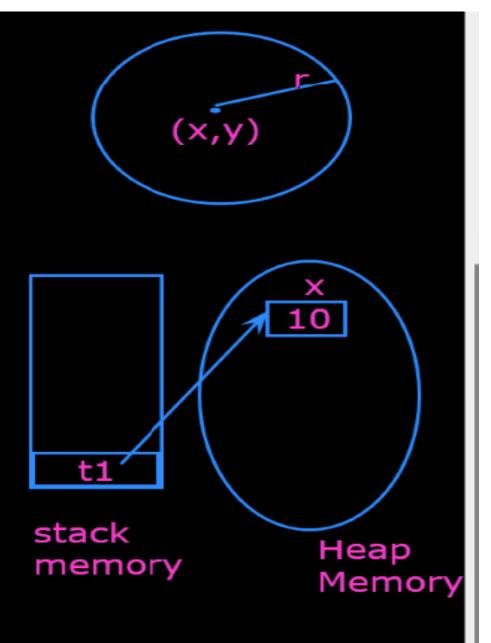
DEcimal to Binary Conversion

```
n = 17;
 String bin="";
while(n>0)
    int r = n\%2
    bin = bin + r;
    n=n/2
   SOP(bin);
```



```
class Test
    int x=10;//class variable/instance variable
    public void display()
        System.out.println("Hello CDAC Mumbai!!!");
    public static void main (String args [])
        //create object:reference variable
        Test t1 = new Test();
        System.out.println(t1.x);
        t1.display();
                                        stack
                                                      Heap
                                        memory
                                                      Memory
```

```
class Circle
    int r;
area()
    int a=3.14*r*r;
main()
{
    Circle c1 = new Circle();
    c1.r=5;
    SOP(c1.area());
     Circle c2 = new Circle();
```



```
class Test
   int x=10;//class variable/instance variable
   public void display()
       System.out.println("Hello CDAC Mumbai!!!");
   public static void main(String args[])
        //create object:reference variable
       ·Test t1 = new Test();
       System.out.println(t1.x);
       t1.display();
```