Amap 
$$\omega/o$$
 Hird weighte.  
 $x = 25$   $\Rightarrow 23$   
 $y = 23$ 

$$x = x + y \Rightarrow 25 + 23 = 48 \rightarrow x$$
 $y = x - y \Rightarrow 48 - 23 = 25 \rightarrow y \quad ] - 0/P$ 
 $x = x - y = 48 - 25 = 23 \rightarrow x$ 
 $x = x - y = 48 - 25 = 23 \rightarrow x$ 
 $x = x - y = 48 - 25 = 23 \rightarrow x$ 

Reverse a 3 digit nodigit = m 9.10 = 2

digit = m7.10 = 2  $80 \times 10 + digit$   $80 = 0 \times 10 + 2 = 2$ 

 $= m/10 \rightarrow 34$ 

= 347.10-> 4

8n= 2x10+4=24

= m/10 - 34/10 = 3

= m7010 = 37010 = 3

rn=24x10+3=243

```
m = 3 \frac{4}{2}
\frac{2}{4}
\frac{2}{4}
\frac{3}{4}
```

```
// take input
Syso(reverse(n));

public static int reverse(int num){
   int rn = 0;
   while(num > 0){
       int digit = num % 10;
       rn = rn * 10 + digit;
       num = num / 10;
   }
   return rn;
}
```

Revesse n-runbers.

```
// input
     Scanner s = new Scanner(System.in);
     int n = s.nextInt();
     int number = formNumber(n, s);
     System.out.println(number);
     System.out.println(reverse(number));
}
   public static int formNumber(int n, Scanner s){
          int number = 0;
   for(int i = 0; i < n; i++){
   int digit = s.nextInt();
   number = number * 10 + digit;
}</pre>
          return number;
public static int reverse(int number){
      int rv = 0;
 while(number != 0) {
   int digit = number % 10;
   rv = rv * 10 + digit;
   number /= 10;
}
      return rv;
```

1070 (n4n)

```
7c=0(r)
```

```
Scanner s =
    itn t =
    for(){
        int num = s.nextInt();
        if(isPalindrome(num)){
            Syso("YES");
        }
        else{
            Syso("NO");
        }
}

public static int reverse(int number){
    return number == reverse(number);
        return number == reverse(number);
}
```

```
lastolejit 4, 100 3 5 6

7, 1000 3 45 6
             7. 10000 > 3456
```

nun = last digit x 10000 return nun ;

}

+ firstdigit;

56 0000 + 1234 561234

Pransform a no-

Assays > Collection of same data types. int -4 byts int and 1/2/3/4 typs ) 1 4012 4008 4008 1 - 4 by 18 4m - 4m3 Size of array = data type x no of elements  $4 \times 4 = 16$  bytes. 5 x y = 20 byts arrays are always stored continuously are. Is data type.

Array indexing starts from 0.

Length of array > 5

our > 1/2/3/4/5

function = length

ger. length; 17->5

indexe of array > n-1

Declarations of array jutatys name array sure representations int type of name[]] arrang RHS = 40 bytes of continuous meniory. LHS = type and name of array. char cht] = new char[10]; -> charaëlet type double [] d = new double [10]; -> declined number. boolean b[] = new boolean[10]; -) boolean type.

J Ayso (autij)

```
Output

1
2
3
4
5
1 2 3 4 5
=== Code Execution Success
```

```
// Use this editor to write, compile and run your Java
class Main {
     public static void main(String[] args) {
         Scanner s = new Scanner(System.in);
         int arr[] = new int[5];
        // take input
         for(int i = 0; i < arr.length; i++){</pre>
             arr[i] = s.nextInt();
         }
         // print output
         for(int i =0; i < arr.length; i++){</pre>
         System.out.print(arr[i] + " ");
         }
    }
```

Arrays works on references. \$. If we try to access our invested indese, then an ever out of bound index. Indering from [0.-(n-1)] Indering court be négative. By default all the indexes of the array are to (int) Double > 0.0 (by default) dar arlay 3 mill bodean array 3 false. 

How dela stored in aways. Datatypes, Fut v = 4; > arlays -> int 14 14 bytes n boolear - Jouble Jo -out are [] = new int [5]; [] es ryerence. not direct name. class 10, -> 2nd burch,
all, -> address of anay.

The 42a 72fb31

```
int arr[] = new int[5];

System.out.println(arr);
System.out.println(arr[4]);
System.out.println(2);
```

```
Output

[I@659e0bfd
0
2

=== Code Execut
```

