Prime Number L> A number only divisible by 1 and itself. 2,3,5,7,11,13,... boolean checkPrime (int n) { if(n<2) } return false, if(2== 5) { return true; Jos (int :: 2; i (int) Mate. 59xt(n); i++) if (n% 1==0) } return jalse; Jeturn true;

2

Why are we cheeking afto Square root $\frac{40}{40} \Rightarrow 2$ $\frac{40}{60} \Rightarrow 2$ $\frac{40}{60} \Rightarrow 2 \Rightarrow 6$ $\frac{1}{78} \Rightarrow 6$ $\frac{2}{42} \Rightarrow 2 \Rightarrow 6$ $\frac{13}{42} \Rightarrow 21$

Factors of a number 20 > 1, 2, 4, 5, 10, 20 i=1+020 20%i==01:is factorial 29 October 2024 21:45

```
Array > It is collection of elements
             of similar data type.
     20, 5, 6, 7, 100, 204, 380, 14, 11, 75, ...
      int a=20;
       int 6:5;
       int c= 6,
       int d=7;
                        int a-
       int e=100;
                         int at 7-) array
   data-type name-of-array [] = new data-type [size];
      int arr[]=new int[6];

arr[0]=100; | arr[2]=40; | arr[4]=60;

arr[1]:200; | arr[3]=5; | arr[5]=72;
      T100, 200, 40, 5, 60, 72]
index > 0 1 2 3 4 5
      oto5.
      int arrEJ=new int[8];
            (0)=[0] xxD
            988[1] =13,
             arr[2] = 100;
```

977[3]: 107,

arr[4]: 1009; arr[6] = 987; arr[6] = 464; arr[7]: 67846;

 $\begin{bmatrix} 10,13,100,107,1009,987,464,67846 \end{bmatrix}$ 0 1 2 3 4 5 6 7 $987(77) \rightarrow 67846$

944[4] > 1009 944[2] > 100

4,6,8, "abc", 10

"4", "6", "8", "abc", "10"

L) array of string