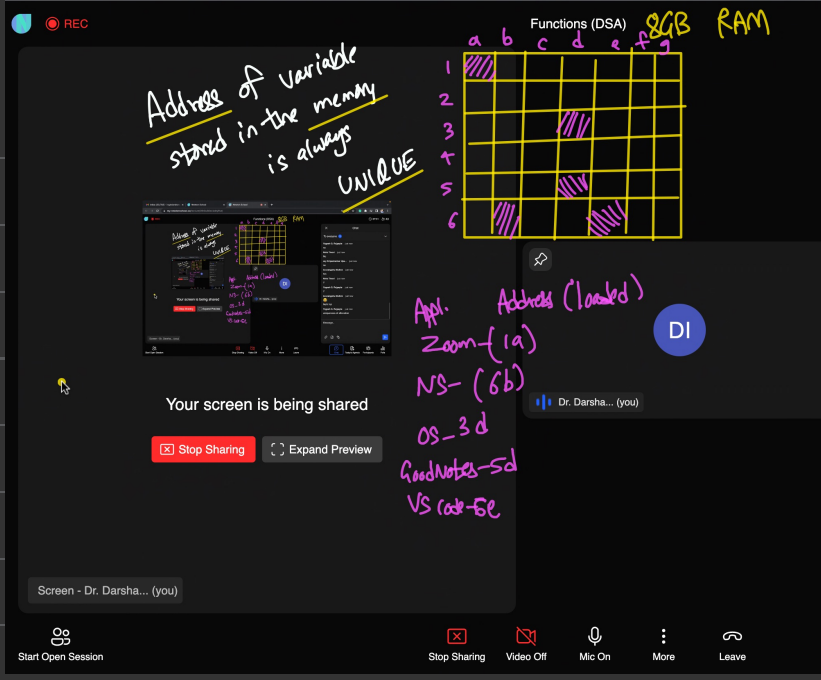
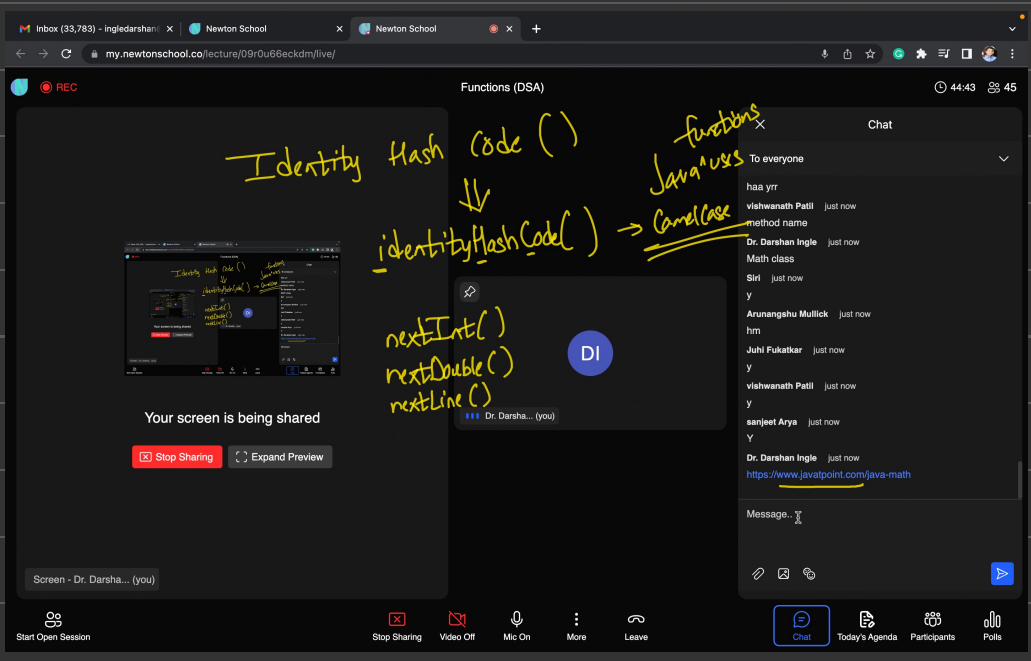
5 Mar 2023

```
class Main
{ psvm(--11--)
  {
    int a0 = 2;
    int a1 = 4;
    int a2 = 6;
    int a3 = 8;
    int a4 = 10;
    int a5 = 12;
    Sopln(a0+a1+a2+a3+a4);
  }
}
```

	int	int	int	int	int	int
	a0	a1	a2	a3	a4	a5
	2	4	6	8	10	12
Address:	111	222	333	172	613	1251

o/p: 42

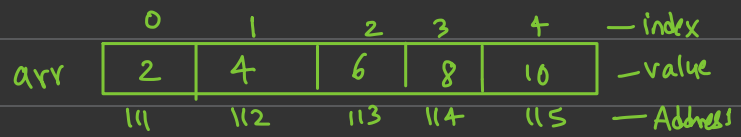

REC
Functions (DSA)
8GB RAM
Address of variable stored in the memory is always UNIQUE
a b c d e f g
1 2 3 4 5 6
Appl. Address (loaded)
Zoom-(1a)
NS- (6b)
OS_3d
GoodNotes-5d
VS code-5e
DI
Dr. Darsha... (you)
Your screen is being shared
Stop Sharing
Expand Preview
Screen - Dr. Darsha... (you)
Start Open Session
Stop Sharing
Video Off
Mic On
More
Leave


Inbox (33,783) - ingledarshan
Newton School
Newton School
my.newtonschool.co/lecture/09r0u66eckdm/live/
REC
Functions (DSA)
44:43
45
Identity Hash Code ()
identityHashCode()
functions
Java uses
CamelCase
nextInt()
nextDouble()
nextLine()
DI
Dr. Darsha... (you)
Your screen is being shared
Stop Sharing
Expand Preview
Screen - Dr. Darsha... (you)
Chat
To everyone
haa yrr
vishwanath Patil just now
method name
Dr. Darshan Ingle just now
Math class
Siri just now
y
Arunangshu Mullick just now
hm
Juhi Fukatkar just now
y
vishwanath Patil just now
y
sanjeet Arya just now
Y
Dr. Darshan Ingle just now
https://www.javatpoint.com/java-math
Message..
Start Open Session
Stop Sharing
Video Off
Mic On
More
Leave
Chat
Today's Agenda
Participants
Polls

Array: It is a collection of values of same datatype.

Syntax: datatype array_name[] = new datatype[size];

eg: int arr[] = new int[5];




```
arr[0] = 2;
arr[1] = 4;
arr[2] = 6;
arr[3] = 8;
arr[4] = 10;
int sum;
sum = arr[0] + arr[1] + arr[2] + arr[3] + arr[4];
Sopln(sum); //30
```

Inbox (33,785) - ingledarsh | Newton School | Newton School | c array address of element | C Program finding of addre | Online Java Compiler - onli

onlinegdb.com/online_java_compiler

OnlineGDB beta
online compiler and debugger for c/c++

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Run | Debug | Stop | Share | Save | {} Beautify | Language C

main.c

```c
#include<stdio.h>
void main() {
 int i;
 int AR[5] = {12,20,8,16, 40};
 printf("The address of the array is: %p\n", AR);
 printf("The addresses of the four elements are as below.\n");
 for (i =0; i<5; i++)
  printf("Address of AR [%d] = %p\n",i, AR+i);
}
```

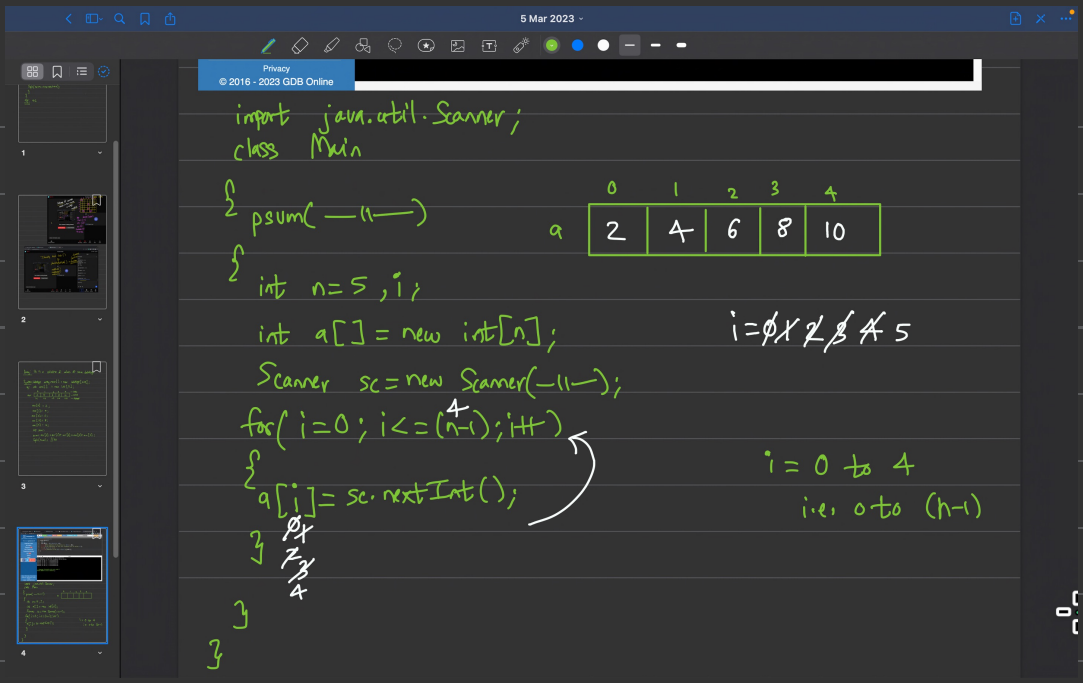
input

```
The address of the array is: 0x7fff4a253730
The addresses of the four elements are as below.
Address of AR [0] = 0x7fff4a253730
Address of AR [1] = 0x7fff4a253734
Address of AR [2] = 0x7fff4a253738
Address of AR [3] = 0x7fff4a25373c
Address of AR [4] = 0x7fff4a253740


...Program finished with exit code 0
Press ENTER to exit console.
```

```
import java.util.Scanner;
class Main
{
 psum(---(1)---)
 {
  int n=5, i;
  int a[] = new int[n];
  Scanner sc = new Scanner(---(1)---);
  for(i=0; i<=(n-1); i++)
  {
   a[i] = sc.nextInt();
  }

 }
}
```

	0	1	2	3	4
a	2	4	6	8	10

i = 0 to 4
i.e. 0 to (n-1)


5 Mar 2023
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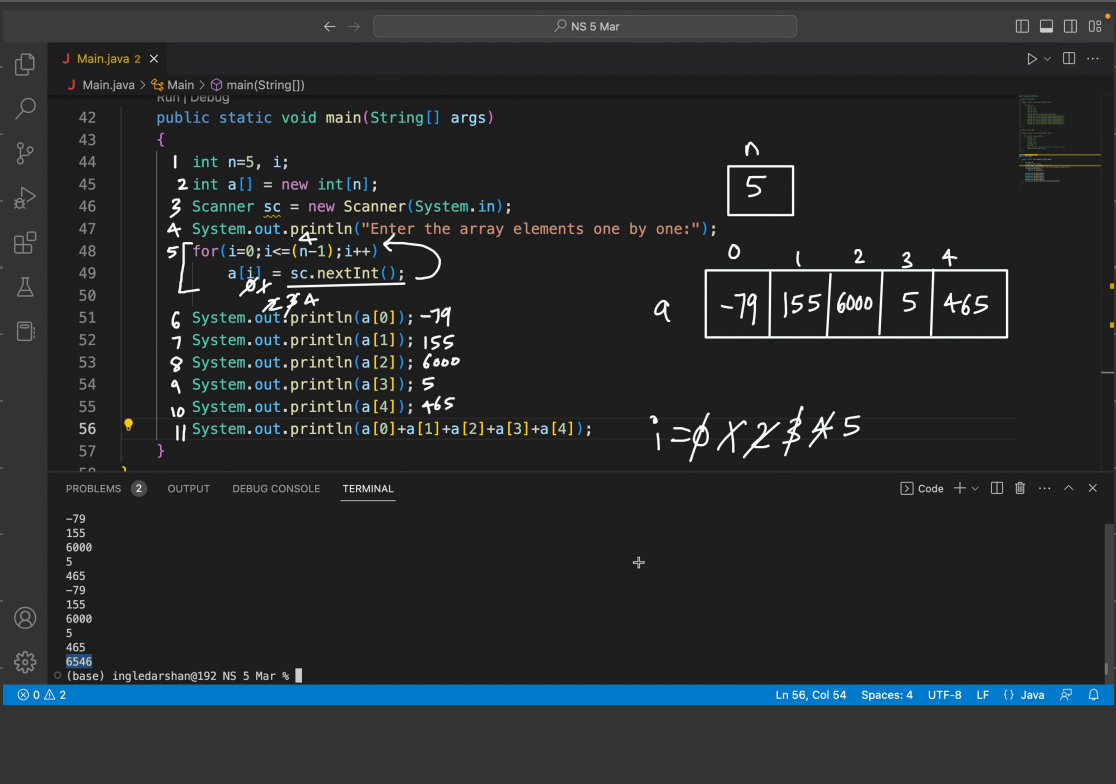
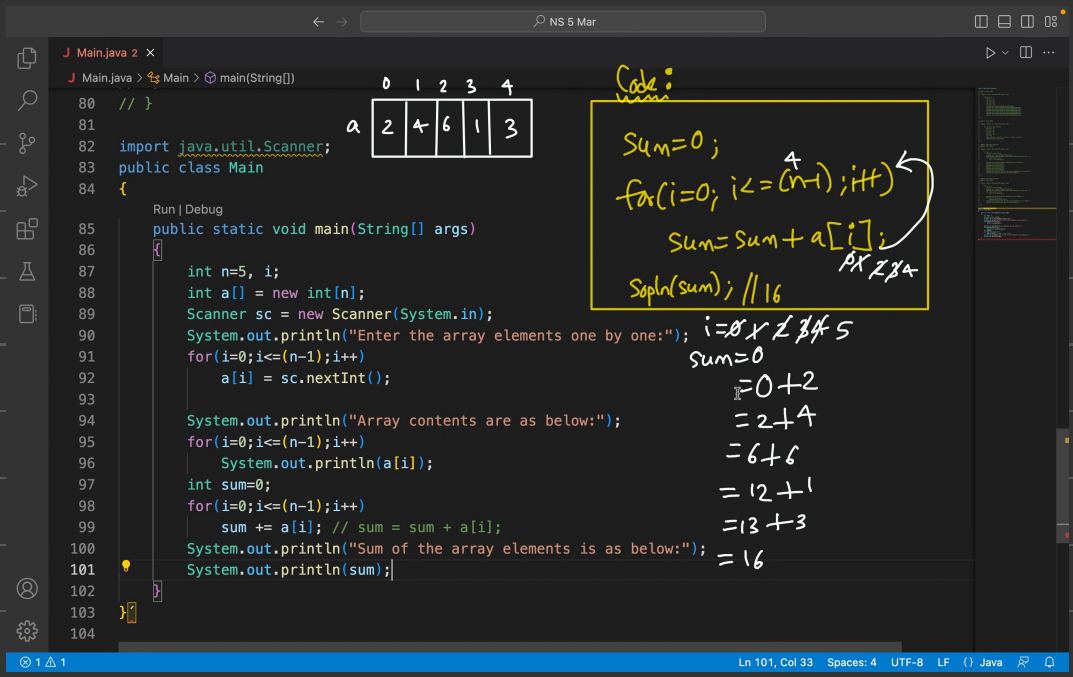
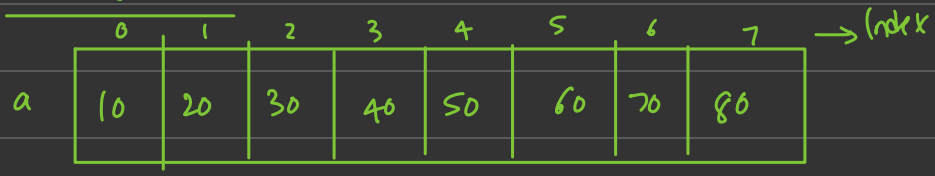
import java.util.Scanner;
class Main
{
psvm(---)
{
int n=5, i;
int a[] = new int[n];
Scanner sc = new Scanner(---);
for(i=0; i<=(n-1); i++)
{
a[i] = sc.nextInt();
}
}
}
a
0 1 2 3 4
2 4 6 8 10
i = 0 to 4
i.e. 0 to (n-1)


NS 5 Mar
Main.java 2
Main.java > Main > main(String[])
public static void main(String[] args)
{
int n=5, i;
int a[] = new int[n];
Scanner sc = new Scanner(System.in);
System.out.println("Enter the array elements one by one:");
for(i=0;i<=(n-1);i++)
a[i] = sc.nextInt();
System.out.println(a[0]); -79
System.out.println(a[1]); 155
System.out.println(a[2]); 6000
System.out.println(a[3]); 5
System.out.println(a[4]); 465
System.out.println(a[0]+a[1]+a[2]+a[3]+a[4]);
}
n
5
a
0 1 2 3 4
-79 155 6000 5 465
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
-79
155
6000
5
465
-79
155
6000
5
465
6546
(base) ingledarshan@192 NS 5 Mar %
Ln 56, Col 54 Spaces: 4 UTF-8 LF Java



Homework:



n=8

* Find sum of values stored at even indexes using for loop.

i.e. a[0]+a[2]+a[4]+a[6]

* ——— // ——— odd ——— // ———.

i.e. a[1]+a[3]+a[5]+a[7]

——— X ———