**import** **static** java.lang.System.***out***;

Stack

|  |  |  |
| --- | --- | --- |
| 5 25 625 | 3 9  729 | 2 4  64 |

Heap

2000

arr

**import** java.util.\*;

2000

**public** **class** Myclass **{**

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int**[] arr;

Stack

***out***.print("enter size of array");

a

**int** size=sc.nextInt();//3

arr=**new** **int**[size];

2000

**int** i;

**for**(i=0;i<arr.length;i++)

a

{

Int a=5;

Int b;

b=a;

arr[i]=sc.nextInt();//5 3 2

5

}

*sqrarr*(arr);

printarr(arr);

cubearr(arr);

printarr(arr);

5

}

**public** **static** **void** printarr(**int** [] a)

{ **for**(**int** i=0;i<a.length;i++)

***out***.println(a);

}

**public** **static** **void** sqrparr(**int** [] a)

{ **for**(**int** i=0;i<a.length;i++)

a[i]=a[i]\*a[i];

}

**public** **static** **void** cubeparr(**int** [] a)

{ **for**(**int** i=0;i<a.length;i++)

a[i]=a[i]\*a[i];

}

**}**

Accept 5 element in an array. // 1 3 2 4 5

2. call method factofarr(int [] a) which will store factorial of each element in same array 1 6 2 24 120

3.call method printarr(int [] a) which will print all element// 1 6 2 24 120

4. call method sumofarr(int [] a) which will do sum of each element[] //153

|  |  |  |
| --- | --- | --- |
| 0 | 1 | 2 |
| 12 | 9 | 6 |

12🡺 1,2,3,4,6,12

9🡺1,3,9

6🡺1,2,3,6

**import** **static** java.lang.System.***out***;

**import** java.util.\*;

2000

**public** **class** Myclass **{**

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int**[] arr;

Stack

***out***.print("enter size of array");

a

**int** size=sc.nextInt();//3

arr=**new** **int**[size];

2000

**int** i;

**for**(i=0;i<arr.length;i++)

a

{

Int a=5;

Int b;

b=a;

arr[i]=sc.nextInt();//5 3 2

5

}

*factarr*(arr);

}

5

**Public** **static** **void factarr** (**int** [] a)

{

**for**(**int** i=0;i<a.length;i++)

**factor(arr[i]);**

Public static void display(int [] arr)

{ for(int n :arr)

S .o.pln(n);

}

}

Public static void factor(int no)

{ inti,j;

int[] a1;

a1=new int[no/2+1];

for(i=1;i<=no;i++)

{

if(a%i==0)

a1[j++]=i;

}

display(a1);

}

**}**