Scopes in java

Local and Global

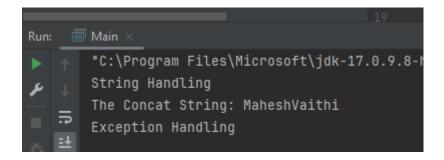
Access Modifiers in Java:

Public, Private and Protected

String Handling in Java:

Refer an oracle string operations for inbuilt function

```
System.out.println("String Handling");
String a = "Mahesh";
String b = "Vaithi";
String c=a+b; //concat string
System.out.println("The Concat String: "+c);
```



Exception Handling

```
System.out.println("Exception Handling");
int x = 10;
int y = 0;
int res = x/y;
System.out.println("Result Of :"+res);
```

```
Division by zero :

int y = 0

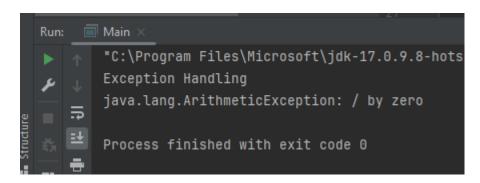
StringHandlingJava :
```

Divide by Zero exception

By Arithmetic exception:

```
System.out.println("Exception Handling");
int x = 10;
int y = 0;

try {
   int res = x / y;
   System.out.println("Result Of :"+res);
}
catch(ArithmeticException e) {
   System.out.println(e);
}
```



```
// Multiple Exception
int n1=200;
int n2=0;

try{
   int s = n1/n2;
   System.out.println("Result of: "+s);
}
catch (Exception e) {
   System.out.println(e);
}
finally {
   System.out.println(n1);
}
```

```
Run: Main ×

"C:\Program Files\Microsoft\jdk-17.0.9.8-hots
Exception Handling
java.lang.ArithmeticException: / by zero
java.lang.ArithmeticException: / by zero
200

Process finished with exit code 0
```

Parent exception should be under the child exception:

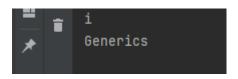
Exception - child
Arithmetic Exception - parent

Enums in Java

```
// Enum in java

Learning learning = Learning.GENERICS;

switch (learning) {
    case COREJAVA -> System.out.println("Core JAVA");
    case COLLECTIONS -> System.out.println("Collections");
    case GENERICS -> System.out.println("Generics");
    case JSP -> System.out.println("JSP");
    case MULTITHREADING -> System.out.println("MultiThreading");
}
```



All Array Ops:

```
package org.example;
import java.util.*;
public class Main {
   public static void main(String[] args) {
```

} }

```
Run: Main
       Enter the Size of Array:
       Enter the elements in the array:
   ₽
   î
       The elements in the Array are:
==
       12
       Θ
       100
       22
       Individual Array elements Using For each:
       12
       0
       100
       22
       Sorted Arr:
       -1
       Θ
       12
       22
       100
       Process finished with exit code 0
```

Array Lists in Java

```
package org.example;
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
```

```
// array list implementation
```

Stack Linked List are refer code doc:

Some of the Stack and Linked list methods are refer docs for inbuilt method

Hash Collections and its types refer code file:

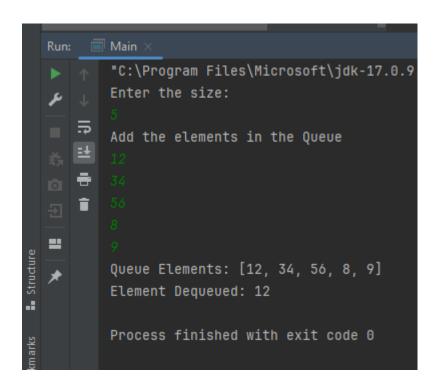
Queue in java

```
package org.example;
import java.util.*;
import java.util.concurrent.LinkedBlockingDeque;
import java.util.concurrent.LinkedBlockingQueue;
public class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      Queue q = new LinkedBlockingQueue();
      System.out.println("Enter the size: ");
      int size = sc.nextInt();
```

```
//enqueue operation
System.out.println("Add the elements in the Queue");
for(int i=0;i<size;i++){
        q.offer(sc.nextInt());
}

//display queue
System.out.println("Queue Elements: "+q);

// dequeue Operation:
System.out.println("Element Dequeued: "+q.poll());
}
</pre>
```



Maps in Java:

TreeMap and HashMap

Refer code doc:

Multithreading in Java: