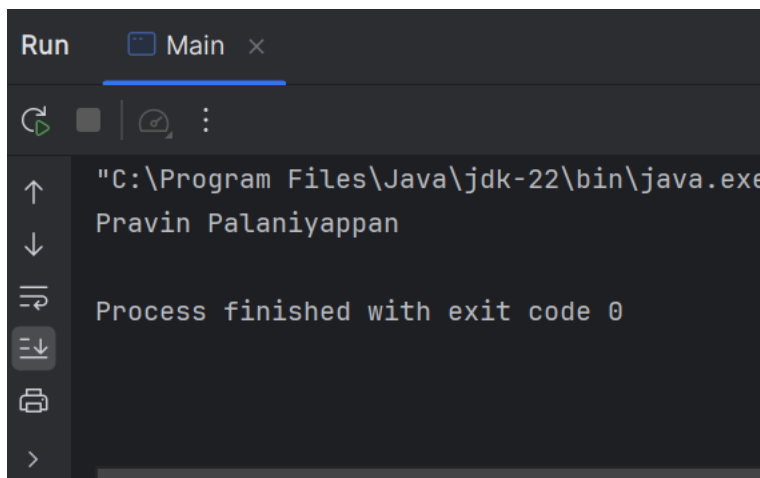


THEORY CLASS – 1

DATE : 22-07-24

1.

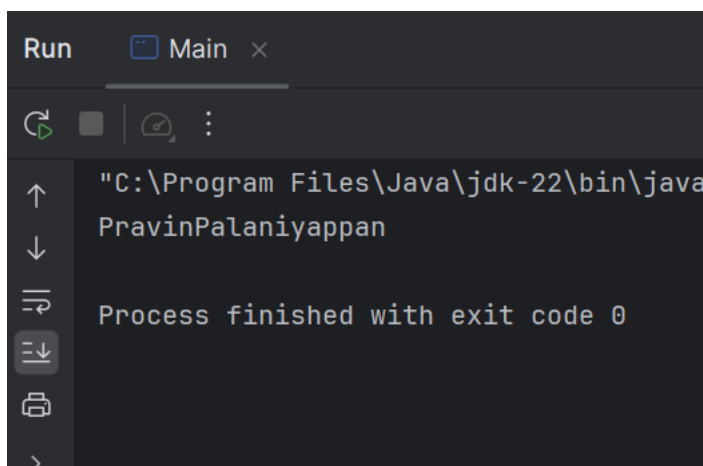
```
public class Main{
    public static void main(String args[]){
        String firstName = "Pravin" ;
        String lastName = "Palaniyappan";
        System.out.println(firstName + " " + lastName );
    }
}
```



The screenshot shows a 'Run' window for a class named 'Main'. The command executed is '"C:\Program Files\Java\jdk-22\bin\java.exe"'. The output displayed is 'Pravin Palaniyappan'. Below the output, it states 'Process finished with exit code 0'. The window includes standard IDE controls like a green play button, a stop button, and a menu icon.

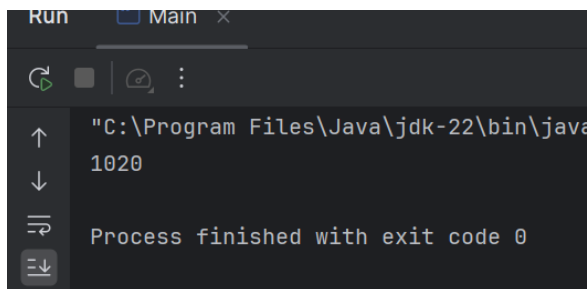
2.

```
public class Main{
    public static void main(String args[]){
        String firstName = "Pravin" ;
        String lastName = "Palaniyappan";
        System.out.println(firstName.concat(lastName));
    }
}
```



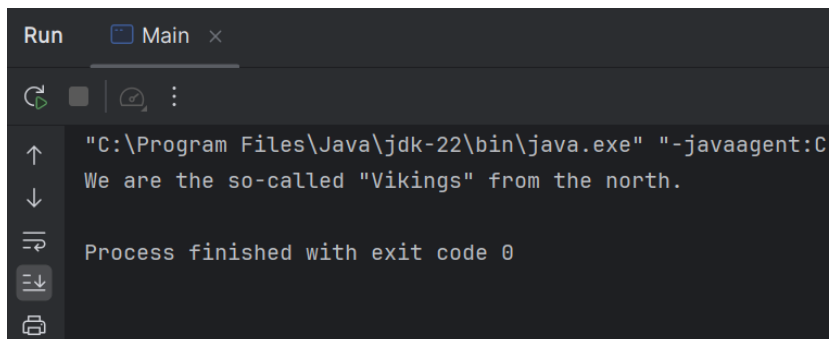
The screenshot shows a 'Run' window for a class named 'Main'. The command executed is '"C:\Program Files\Java\jdk-22\bin\java.exe"'. The output displayed is 'PravinPalaniyappan'. Below the output, it states 'Process finished with exit code 0'. The window includes standard IDE controls like a green play button, a stop button, and a menu icon.

```
3. public class Main{
    public static void main(String args[]){
        String x = "10";
        int y = 20;
        String z = x + y;
        System.out.println(z);
    }
}
```



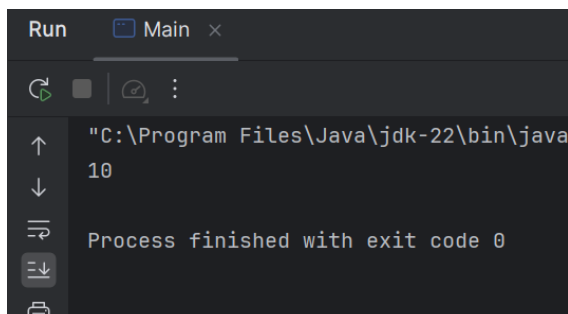
```
Run Main x
"C:\Program Files\Java\jdk-22\bin\java
1020
Process finished with exit code 0
```

```
4. public class Main {
    public static void main(String[] args) {
        String txt = "We are the so-called \"Vikings\" from the north. ";
        System.out.println(txt);
    }
}
```



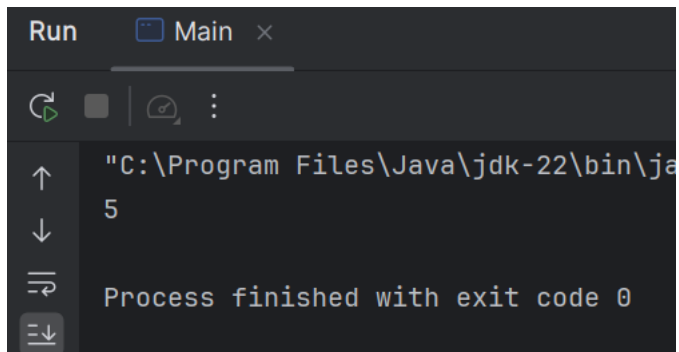
```
Run Main x
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C
We are the so-called "Vikings" from the north.
Process finished with exit code 0
```

```
5. public class Main {
    public static void main(String[] args) {
        System.out.println(Math.max(10,5));
    }
}
```



```
Run Main x
"C:\Program Files\Java\jdk-22\bin\java
10
Process finished with exit code 0
```

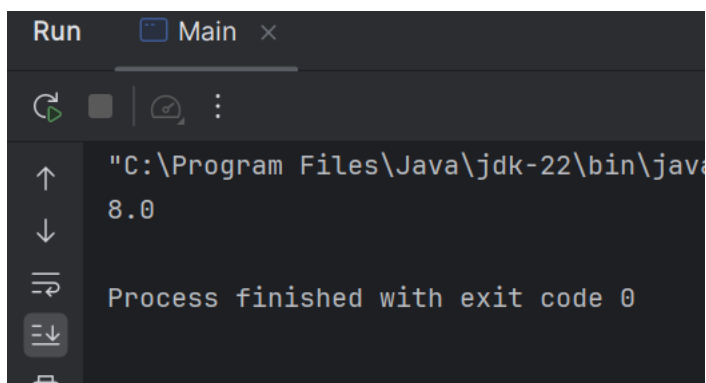
```
6. public class Main {  
    public static void main(String[] args) {  
        System.out.println(Math.min(10,5));  
    }  
}
```



The screenshot shows a 'Run' window for a class named 'Main'. The command line is '"C:\Program Files\Java\jdk-22\bin\java.exe"'. The input is '5'. The output is '5'. The status is 'Process finished with exit code 0'.

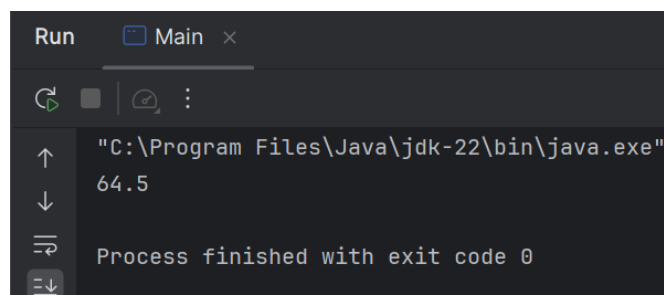
```
7. public class Main {  
    public static void main(String[] args) {  
        System.out.println(Math.sqrt(64));  
    }  
}
```

// Works only with perfect squares



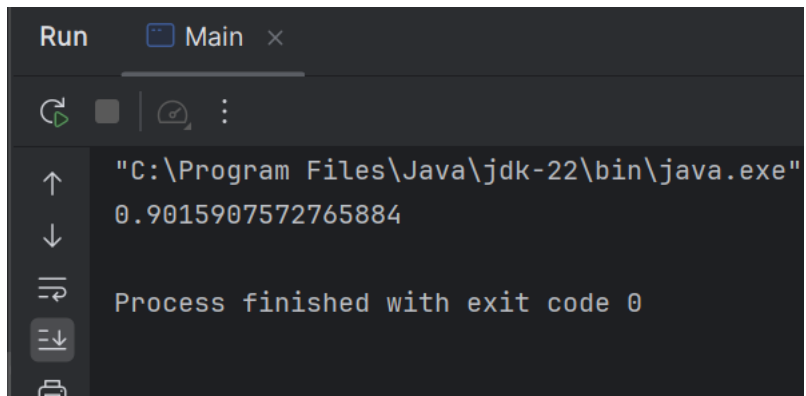
The screenshot shows a 'Run' window for a class named 'Main'. The command line is '"C:\Program Files\Java\jdk-22\bin\java.exe"'. The input is '8.0'. The output is '8.0'. The status is 'Process finished with exit code 0'.

```
8. public class Main {  
    public static void main(String[] args) {  
        System.out.println(Math.abs(-64.5));  
    }  
}
```



The screenshot shows a 'Run' window for a class named 'Main'. The command line is '"C:\Program Files\Java\jdk-22\bin\java.exe"'. The input is '64.5'. The output is '64.5'. The status is 'Process finished with exit code 0'.

```
9. public class Main {  
    public static void main(String[] args) {  
        System.out.println(Math.random());  
    }  
}
```



The screenshot shows a dark-themed IDE window titled "Run" with a tab for "Main". The console output displays the command path for the Java executable, the output of the random number generation, and the successful completion of the process.

```
"C:\Program Files\Java\jdk-22\bin\java.exe"  
0.9015907572765884  
  
Process finished with exit code 0
```