

- ① How do you swap two numbers without using a third variable in java?

```
import java.util.*;
```

```
class swap
```

```
{
```

```
    public static void main(String a[])
```

```
    {
```

```
        System.out.println("Enter the value of x and y");
```

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

```
        int x = sc.nextInt();
```

```
        int y = sc.nextInt();
```

```
        System.out.println("before swapping numbers: " + x + " " + y);
```

```
        x = x + y;
```

```
        y = x - y;
```

```
        x = x - y;
```

```
        System.out.println("After swapping: " + x + " " + y);
```

```
    }
```

```
}
```

- ② How do you remove spaces from a string in java?

```

class BlankSpace{
    public static void main(String[] args)
    {
        String str = "Java Programming";
        str = str.replaceAll("\\s", "");
        System.out.println(str);
    }
}

```

③ write a sample program for multiple Inheritance?

```

interface Backend{
    public void connectServer();
}

class Frontend{
    public void responsive(String str){
        System.out.println(str + "can also used as frontend");
    }
}

class Language extends Frontend implements Backend{
    String language = "Java";
    public void connectServer(){

```

System.out.println(language + " can be used as backend language.");

```
public static void main(String[] args){  
    Language java=new Language();  
}
```

④ How do you find the second largest number in an array in java.

```
Public class SecondLargestInArrayExample{  
    public static int getSecondLargest(int[] a, int total){  
        int temp;  
        for(int i=0; i<total; i++)
```

```
{  
    for(int j=i+1; j<total; j++)
```

```
{  
    if(a[i]>a[j])
```

```
{
```

```
temp=a[i];
```

```
a[i]=a[j];
```

```
a[j]=temp;
```

```
}
```

```
}
```

```
}
```

```
return a[total-2];  
}
```



```

}
public static void main(String args[]) {
    int a[] = {1, 2, 5, 6, 3, 2};
    int b[] = {44, 66, 99, 77, 33, 22, 55};
    System.out.println("Second Largest" + getSecondLargest(a));
    System.out.println("Second Largest" + getSecondLargest(b));
}
}

```

- ⑤ Show an example of switch expressions and multiple case statements in java.

Java Switch Statement

- * It allows to execute a block of code among many alternatives

- * It is similar to Java if...else... if ladder

- * Expression is evaluated once and compared with the values of each one

Multiple case statement

- * It includes an optional default case. It is executed if expression doesn't match

- * Break statement is needed to terminate the switch case statement after matching case.

- * It is used to terminate switch case statement