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JAVA CASE STUDY 2

Q1)
```
package practise;
import java.util.*;

public class EvenOdd {

	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the number:");
		int n = sc.nextInt();

		if(n%2==0) {
			System.out.println("Number is Even");
		}else {
			System.out.println("Number is odd");
		}



	}

}
```


Q2)
```
package practise;
import java.util.*;

public class SwapOfNumbers {

	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the numbers:");
		int a = sc.nextInt();
		int b = sc.nextInt();

		int temp = a;
		a = b;
		b = temp;
```

```java
            System.out.println("The swiped numbers are:");
            System.out.println(a);
            System.out.println(b);


    }

}




3)
package practise;
import java.util.*;

public class Maxnumber {

        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter all those numbers:");
                int a = sc.nextInt();
                int b = sc.nextInt();
                int c = sc.nextInt();


                int maximum = Math.max(a, b);
                int umaximum = Math.max(maximum, c);
                System.out.println(umaximum);

        }

}




4)
import java.util.Scanner;
public class CharVowelorConsonant2 {
private static Scanner sc;
public static void main(String[] args) {
char ch;
sc= new Scanner(System.in);
System.out.print("\nPlease Enter any Character = ");
ch = sc.next().charAt(0);
```

```java
switch(ch) {
case 'a':
case 'e':
case 'i':
case 'o':
case 'u':
case 'A':
case 'E':
case 'I':
case 'O':
case 'U':
System.out.println(ch + " is Vowel");
break;
default:
System.out.println(ch + " is Consonant");
}
}
}
```

5)

```java
public class Main
{
public static void main(String[] args)
{
int i=1;
while(i<=50) {
if(i%2==0)
System.out.print(i+" ");
i++;
}
}
}
```

6)

```java
public class Main
{
public static void main(String[] args)
```

```
{
int i=1;
while(i<=50) {
if(i%2==1)
System.out.print(i+" ");
i++;
}
}
}
```

7)

```
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Print all even numbers till : ");
int n = scanner.nextInt();
System.out.println("\nEven numbers from 1 to " + n + " are : ");
for(int i = 1; i <= n; i++) {
// Check for even or not.
if((i % 2) == 0) {
System.out.print(i + " ");
}
}
}
}
```

8)

```
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
for(int i=1;i<=5;i++) {
for(int j=1;j<=i;j++) {
System.out.print(i);
}
System.out.println();
```

```
        }
    }
}
```

9)

```java
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int n=sc.nextInt();
for(int i=1;i<=n;i++) {
for(int j=1;j<=5;j++) {
System.out.print(n);
}
System.out.println();
}
}
}
```

10)

```java
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int n=sc.nextInt();
for(int i=1;i<=n;i++) {
for(int j=n-1;j>=i;j--) {
System.out.print(" ");
}
for(int k=1;k<=i;k++) {
System.out.print("*");
}
System.out.println();
}
```

11)

```java
package practise;
import java.util.*;

public class ReverseArray {

        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                int n = sc.nextInt();
                int[] arr = new int[5];

                for(int i=0; i<n; i++) {
                        arr[i]=sc.nextInt();
                }
                System.out.println("Reverse array is:");
                for(int i=n-1; i>=0; i--) {
                        System.out.print(arr[i]);
                }


        }

}
```

12)

```java
package practise;
import java.util.*;

public class SwapOfNumbers {

        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter the numbers:");
                int a = sc.nextInt();
                int b = sc.nextInt();

                int temp = a;
                a = b;
```

```
            b = temp;
            System.out.println("The swiped numbers are:");
            System.out.println(a);
            System.out.println(b);


    }

}
```

13)


```
public class Main{
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int num = sc.nextInt();
long factorial = 1;
for(int i = 1; i <= num; ++i)
{
// factorial = factorial * i;
factorial *= i;
}
System.out.printf("Factorial of %d = %d", num, factorial);
}
}
```