

Java Coding Test

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1. Write a java code to perform swapping of two numbers.

Source Code:

```
import java.util.*;
public class SwappingNumbers {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of a: ");
        int a = sc.nextInt();
        System.out.println("Enter the value of b: ");
        int b = sc.nextInt();
        int c = a+b;
        int x = c-a;
        int y = c-b;
        System.out.println("After Swapping of 2 numbers: ");
        System.out.println("Value of a: "+x);
        System.out.println("Value of b: "+y);
    }
}
```

OutPut:

```
Enter the value of a:
1
Enter the value of b:
2
After Swapping of 2 numbers:
Value of a: 2
Value of b: 1
```

2. Write a java program to get largest among these three numbers.

Source Code:

```
import java.util.*;
public class LargestNumber {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of a: ");
        int a = sc.nextInt();
        System.out.println("Enter the value of b: ");
        int b = sc.nextInt();
        System.out.println("Enter the value of c: ");
```

```

        int c = sc.nextInt();

        if(a>b && a>c)
        {
            System.out.println("The value of "+a+" is greater among 3
numbers");
        }
        else if(b>a && b>c)
        {
            System.out.println("The value of "+b+" is greater among 3
numbers");
        }
        else
        {
            System.out.println("The value of "+c+" is greater among 3
numbers");
        }
    }
}

```

OutPut:

```

Enter the value of a:
20
Enter the value of b:
60
Enter the value of c:
50
The value of 60 is greater among 3 numbers

```

3. Write a java program to find the prime numbers from 1 to 50.

Source Code:

```

import java.util.*;
public class PrimeNumbers {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter how many numbers you want to print:");
        System.out.println("Enter the lower number: ");
        int L = sc.nextInt();
        System.out.println("Enter the higher number: ");
        int H = sc.nextInt();
        prime p = new prime();
        for (int i=L;i<H;i++)
        {
            boolean res = p.checkprime(i);
            if(res==true)
            {
                System.out.println(i);
            }
        }
    }
}

```

```

class prime
{
    boolean checkprime(int n) {
        if(n==0 || n==1)
        {
            return false;
        }
        else if(n==2)
        {
            return true;
        }
        else
        {
            for(int i=2;i<n;i++)
            {
                if(n%i==0)
                {
                    return false;
                }
            }
            return true;
        }
    }
}

```

OutPut:

Enter how many numbers you want to print:

Enter the lower number:

1

Enter the higher number:

50

2

3

5

7

9

11

13

15

17

19

21

23

25

27

29

31

33

35

37

39

41

43

45

47

49

4. Given String “Edubridge Learning”

- The Letter ‘b’ is stored at which position

Source Code:

```
public class StringMethods {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        String s1 = new String("Edubridge Learning");  
        System.out.println("The index value of b is"+s1.indexOf("b"));  
    }  
}
```

OutPut:

The index value of b is 3

- Replace the word “Edubridge” by “Java”.

Source Code:

```
public class StringMethods {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        String s1 = new String("Edubridge Learning");  
        System.out.println("The String value is "+s1);  
        String s2=s1.replace("Edubridge", "Java");  
        System.out.println("The replace string value is "+s2);  
    }  
}
```

Output:

The String value is Edubridge Learning
The replace string value is Java Learning

- Convert the above string as Character Array

Source Code:

```
public class StringMethods {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        String s1 = new String("Edubridge Learning");  
        int n = s1.length();  
        for(int i=0;i<n;i++)  
        {  
            System.out.println("The String value is "+s1.charAt(i));  
        }  
    }  
}
```

OutPut:

The String value is E
The String value is d
The String value is u
The String value is b
The String value is r
The String value is i
The String value is d
The String value is g
The String value is e
The String value is
The String value is L
The String value is e
The String value is a
The String value is r
The String value is n
The String value is i
The String value is n
The String value is g

5. Write a java program to compare two strings lexicographically .

Source Code:

```
import java.util.*;
public class StringCompare {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the first string: ");
        String s1=sc.next();
        System.out.println("Enter the second string: ");
        String s2=sc.next();
        int s3 = s1.compareTo(s2);
        int s4 = s1.compareToIgnoreCase(s2);
        System.out.println("CompareTo case value: "+s3);
        System.out.println("CompareToIgnore Case value: "+s4);
    }
}
```

Output:

Enter the first string:
JAVA
Enter the second string:
java
CompareTo case value: -32
CompareToIgnore Case value: 0

6. Write a java program to create a simple calculator using a switch case.

Source Code:

```
import java.util.*;
public class SimpleCalculator {
```

```

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of first number:");
        int n1=sc.nextInt();
        System.out.println("Enter the value of second number:");
        int n2=sc.nextInt();
        System.out.println("Enter the operation like add, sub, mul, div,
mod: ");
        String operator=sc.next();
        switch(operator)
        {
            case "add":
                int output1 = n1+n2;
                System.out.println("The Addition value is "+output1);
                break;

            case "sub":
                int output2 = n1-n2;
                System.out.println("The Subtraction value is "+output2);
                break;

            case "mul":
                int output3 = n1*n2;
                System.out.println("The Multiplication value is "+output3);
                break;

            case "div":
                int output4 = n1/n2;
                System.out.println("The Division value is "+output4);
                break;

            case "mod":
                int output5 = n1%n2;
                System.out.println("The Modulus value is "+output5);
                break;

            default:
                System.out.println("Sorry!!! Your entered operation is not
there.");
                break;
        }
    }
}

```

Output:

```

Enter the value of first number:
15
Enter the value of second number:
10
Enter the operation like add, sub, mul, div, mod:
mul
The Multiplication value is 150

```

7. Write a java program to print the numbers 0 1 1 2 3 5 8 13 21 34 in this order using a loop.

Source Code:

```
public class FibanocciSreies {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a=0,b=1,i,count=10;
        System.out.println("The fibanocci values are: ");
        for(i=2;i<count;i++)
        {
            int c=a+b;
            System.out.print(" "+c);
            a=b;
            b=c;
        }
    }
}
```

Output:

The fibanocci values are:
1 2 3 5 8 13 21 34

8. Write a Program to reverse a String with out using reverse() method.

Source Code:

```
import java.util.*;
public class StringReverse {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the String: ");
        String s = sc.next();
        System.out.println("After reversing the String: ");
        for(int i=s.length()-1;i>0;i--)
        {
            System.out.print(s.charAt(i));
        }
    }
}
```

Output:

Enter the String:
Edubridge
After reversing the String:
e
g
d
i
r
b
u
d
E

9. Given Array {12,20,11,40,23,6}

Find the second largest element in the given array.

Source Code:

```
import java.util.Arrays;

public class ArrayProgram {
    public static int SecondLargest(int a[],int total)
    {
        Arrays.sort(a);
        return a[total-2];
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a[] = {12,20,11,40,23,6};
        System.out.println("Second Largest Number: "+SecondLargest(a,6));
    }
}
```

Output:

Second Largest Number: 23

10. Print the below pattern.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
```

Source Code:

```
import java.util.Scanner;

public class PatternProgram {
    public static void numericalPattern(int rows) {
        for(int i=1;i<rows;i++)
        {
            for(int j=1;j<=i;j++)
            {
                System.out.print(j+" ");
            }
            System.out.println();
        }
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        Scanner input=new Scanner(System.in);

        System.out.println("How many rows?:");

        int rowsvalue=input.nextInt();
    }
}
```



```
        numericalPattern(rowvalue);  
    }  
}
```

OutPut:

How many rows?:

7

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

1 2 3 4 5 6