

Week 2

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18M19CS155



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Q1 Write a Java program to print "Hello World!"

Sol
2

```
class Hello {  
    public static void main (String args[]) {  
        System.out.println ("Hello World");  
    }  
}
```

Q2 Write a Java program to find largest of 3 numbers using if construct.

Sol
2

```
import java.util.*;  
class Largest {  
    public static void main (String[] args) {  
        int a, b, c;  
        Scanner in = new Scanner (System.in);  
        a = in.nextInt();  
        b = in.nextInt();  
        c = in.nextInt();  
        if (a > b && a > c) {  
            System.out.println (a + " is largest  
amongst three.");  
        }  
        else if (b > c) {  
            System.out.println (b + " is largest  
amongst three.");  
        }  
    }  
}
```

3



else {

System.out.println("C++ is largest amongst three.");

}

}

}

- ③ Write a Java program to print the values from 1 to n by taking input from the user.

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

```
2 class TakeN {
```

```
3     public static void main (String [] args) {
```

```
4         int n;
```

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

```
6         n = in.nextInt();
```

```
7         n = in.nextInt();
```

```
8         for (int i = 1; i <= n; i++) {
```

```
9             System.out.println(i);
```

```
10        }
```

```
11    }
```

```
12 }
```

- ④ Write a Java program to accept a number n from the user and print

n rows of output given below if i = 4.

```

1
2 3
4 5 6
7 8 9 10
    
```

Sol
 2

```

import java.util.*;
class Series {
    public static void main (String [] args) {
        int n, i = 1;
        Scanner in = new Scanner (System.in);
        System.out.println ("Input : ");
        n = in.nextInt ();
        System.out.println ("Output : ");
        for (int x = 1; x <= n; x++) {
            for (int y = 1; y <= x; y++) {
                System.out.print (i + " ");
                i++;
            }
            System.out.println ();
        }
    }
}
    
```

⑤ Write a Java program to accept the (TE marks (out of 50) and SEE marks (out of



100) of a student and print his/her grade. Use if... else/if ladder.

Sol
2

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

```
class Marks {
```

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

```
        int a, b;
```

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

```
        System.out.println ("Enter your (IE  
        (out of 50) marks : ");
```

```
        a = in.nextInt();
```

```
        System.out.println ("Enter your SEE  
        (out of 100) marks : ");
```

```
        b = in.nextInt();
```

```
        int f = (a + (b / 2));
```

```
        System.out.print ("Grade : ");
```

```
        if (f <= 100 && f >= 90) {
```

```
            System.out.println ("S");
```

```
        }
```

```
        else if (f <= 89 && f >= 80) {
```

```
            System.out.println ("A");
```

```
        }
```

```
        else if (f <= 79 && f >= 70) {
```

```
            System.out.println ("B");
```

```
        }
```

```
        else if (f <= 69 && f >= 60) {
```




```
        System.out.println("C");  
    }  
    else if (f <= 59 && f >= 50) {  
        System.out.println("D");  
    }  
    else if (f <= 49 && f >= 40) {  
        System.out.println("E");  
    }  
    else if (f >= 39 && f >= 0) {  
        System.out.println("F");  
    }  
    else {  
        System.out.println("Enter  
proper marks.");  
    }  
}
```

⑥ Write a C/Java program to print the prime nos. between given two integers (inclusive). Accept these two integers from the user.

Sol
2

```
import java.util.*;  
class Prime {  
    public static void main (String[] args) {
```



```
int a, b;
Scanner in = new Scanner(System.in);
System.out.println("Enter starting
number and ending no. respectively:");
a = in.nextInt();
b = in.nextInt();
System.out.println("Enter starting
no. and ending no. respectively:");
System.out.println("Prime numbers
between " + a + " and " + b + " are:");
for (int i = a; i <= b; i++) {
    if (i == 1 || i == 0) {
        continue;
    }
    int flag = 1;
    for (int j = 2; j <= i/2; j++) {
        if (i % j == 0) {
            flag = 0;
            break;
        }
    }
    if (flag == 1) {
        System.out.println(i);
    }
}
```