

CT1: CSE 203 - Object-Oriented Programming I: Java

Time: 30 min

Mark: 20

Name:

ID:

1. Write a java program that will take a number as input from user and print the next 3 prime numbers. [10]

Sample Input	Output
4	5,7,11
11	13, 17, 19

Example code of User Input:

```
Scanner scan = new Scanner(System.in);  
int a = scan.nextInt();
```

2. Write the header of a method named as **your last name** that will take 2 parameters: **int** and **boolean**, and does not return anything. [4]
3. What will be the output of the following code segment if a is the last 2 digits of your registration number. [6]

```
int data = 11;  
// Here a = last 2 digits of your registration number  
int data2 = data/4 * ++a;  
System.out.println(data2--);  
int data3 = data2 % a;  
System.out.println(data3);
```

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1. Write a java program that will take 2 integer numbers (a and b) from user as input and print the even numbers that are not divisible by 3 and are between a and b. Consider both scenario; $a > b$ and $b > a$. [10]

Sample Input	Output
4 15	8, 10, 14
11 1	2, 4, 8, 10
3 10	4, 8

Example code of User Input:

```
Scanner scan = new Scanner (System.in);  
int a = scan.nextInt();
```

2. Write the header of a method named as **your first name** that will take 2 parameters: **int** and **String**, and return a **boolean** value. [4]
3. What will be the output of the following code segment if a is the last 2 digits of your registration number? Show detailed steps of output calculation.

```
int data = 11;  
// Here a = last 2 digits of your registration number  
int data2 = data%3 * ++a ;  
System.out.println( data2-- ) ;  
int data3 = data2 / a ;  
System.out.println(data3) ;
```