230350320047_Amruta Khandare_LPS3

Q1:

```java
import java.util.Scanner;

public class PositiveNegative
{
        public static void main(String[] args) {
                System.out.println("Enter a number: ");
                Scanner sc = new Scanner(System.in);
                int a = sc.nextInt();
                if(a > 0)
                System.out.println("The number entered is Positive");
                else
                System.out.println("The number entered is Negative");
        }
}
```
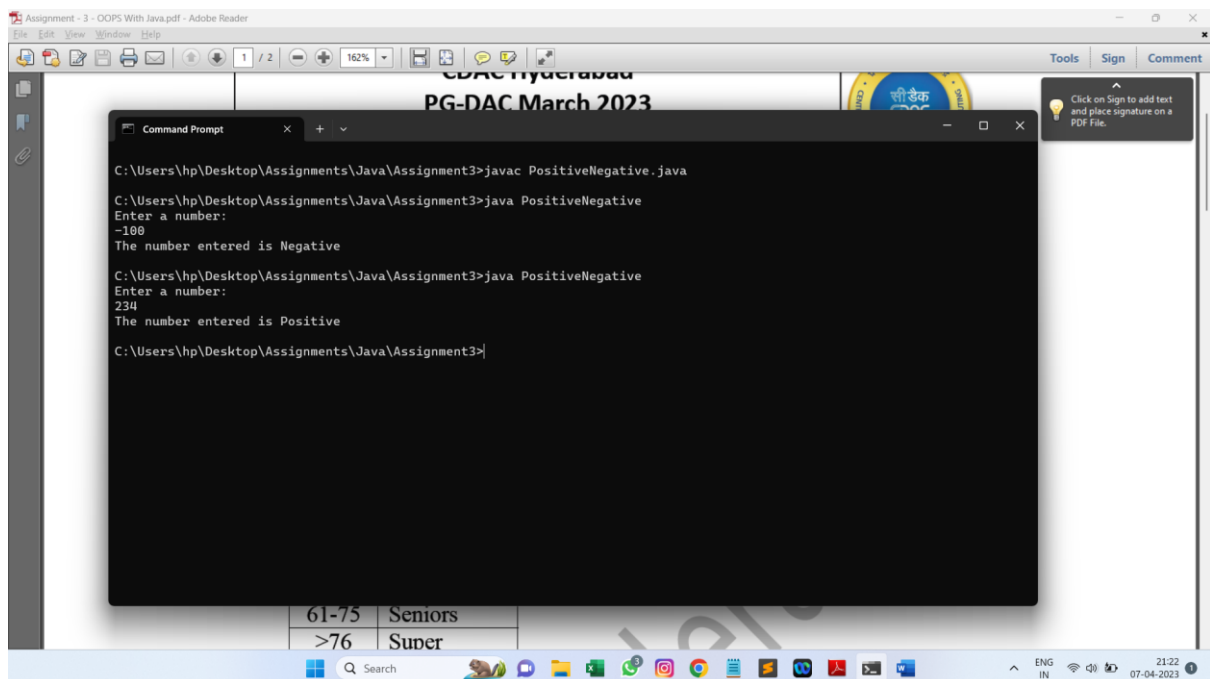
Q2:

```java
import java.util.Scanner;
public class Age
{
	public static void main(String[] args) {
	    Scanner sc = new Scanner(System.in);
	        System.out.print("Enter the age of Person: " + age);
	        int age = sc.nextInt();
	        if(age <= 3){
	        System.out.print("\nYou are Toddlers");
	}
	        else if(4 <=age && age <= 8){
	        System.out.print("\nYou are Kids");
  }
	        else if(9 <=age && age <= 12){
	        System.out.print("\nYou are Child");
	}
	    else if(13 <=age && age <= 18){
	        System.out.print("\nYou are Teens");
	}
	    else if(19 <=age && age <= 40){
	        System.out.print("\nYou are Adults");
	}
	    else if(41 <=age && age <= 60){
	        System.out.print("\nYou are Matured Adults");
	}
```

```java
        else if(61 <=age && age <= 75){

        System.out.print("\nYou are Seniors");

    }

    else

        System.out.print("\nYou are Super Seniors");

    }

}
```
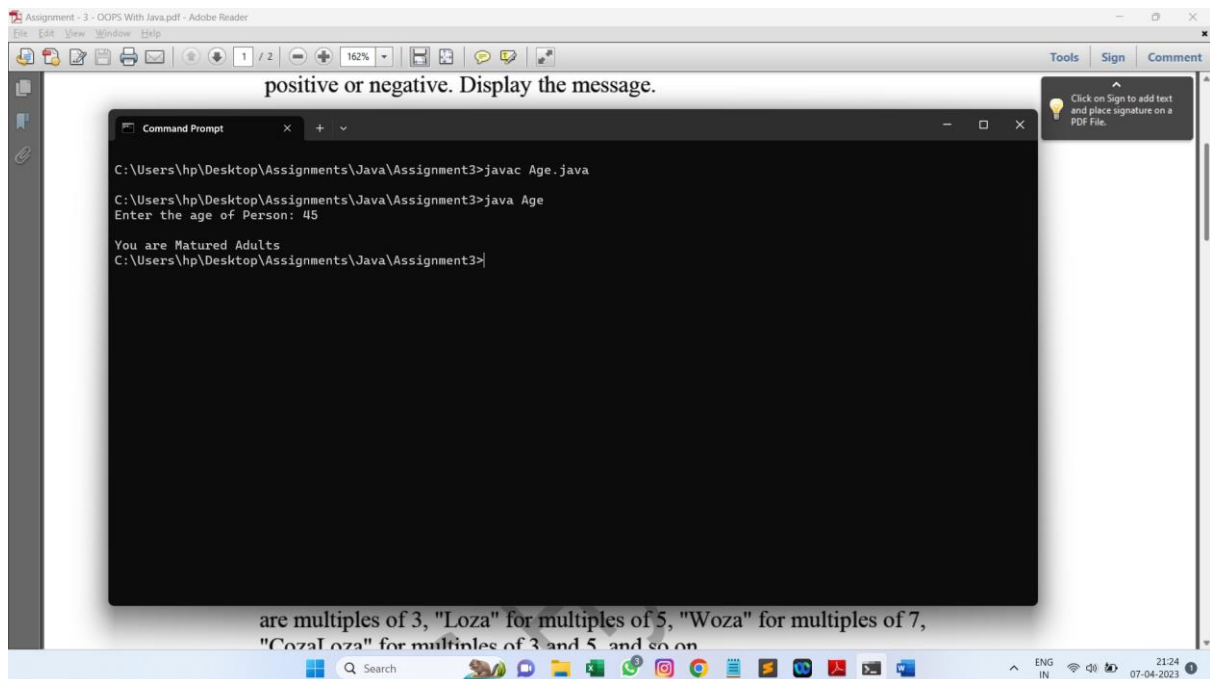
Q3:

```java
public class CozaLozaWoza
{
    public static void main(String[] args) {
        int i, j, count = 0;
        for(i = 1;i<=110;i++){
            if(i % 3 == 0 && i % 5 == 0){
                System.out.print("CozaLoza ");
                count++;
            }
            else if(i%3 == 0){
                System.out.print("Coza ");
                count++;
            }
            else if(i % 5 == 0){
                System.out.print("Loza ");
                count++;
            }
            else if(i % 7 == 0){
                System.out.print("Woza ");
                count++;
            }
            else{
                System.out.print(i+" ");
                count++;
            }
```

```java
        for(j = 0;j<10;j++)
        if(count == j*11){
            System.out.print("\n");
        }
    }
}}
```



```
C:\Users\hp\Desktop\Assignments\Java\Assignment3>javac CozaLozaWoza.java

C:\Users\hp\Desktop\Assignments\Java\Assignment3>java CozaLozaWoza
1 2 Coza 4 Loza Coza Woza 8 Coza Loza 11
Coza 13 Woza CozaLoza 16 17 Coza 19 Loza Coza 22
23 Coza Loza 26 Coza Woza 29 CozaLoza 31 32 Coza
34 Loza Coza 37 38 Coza Loza 41 Coza 43 44
CozaLoza 46 47 Coza Woza Loza Coza 52 53 Coza Loza
Woza Coza 58 59 CozaLoza 61 62 Coza 64 Loza Coza
67 68 Coza Loza 71 Coza 73 74 CozaLoza 76 Woza
Coza 79 Loza Coza 82 83 Coza Loza 86 Coza 88
89 CozaLoza Woza 92 Coza 94 Loza Coza 97 Woza Coza
Loza 101 Coza 103 104 CozaLoza 106 107 Coza 109 Loza
C:\Users\hp\Desktop\Assignments\Java\Assignment3>
```

Q4:

```java
import java.util.Scanner;
public class Prime
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number: ");
        int n = sc.nextInt();
        int i, count = 0;
        for(i = 1;i<=n;i++){
            if(n % i == 0)
            count++;
        }
            if(count>2){
            System.out.println("The number entered is Not Prime");
        }
        else{
            System.out.println("The number entered is Prime");
        }
}}
```

3   Write a program called CozaLozaWoza which prints the numbers 1 to 110, 11

```
Command Prompt

C:\Users\hp\Desktop\Assignments\Java\Assignment3>javac Prime.java

C:\Users\hp\Desktop\Assignments\Java\Assignment3>java Prime
Enter the number:
87
The number entered is Not Prime

C:\Users\hp\Desktop\Assignments\Java\Assignment3>java Prime
Enter the number:
13
The number entered is Prime

C:\Users\hp\Desktop\Assignments\Java\Assignment3>
```

* * *
* * * *

Q5:
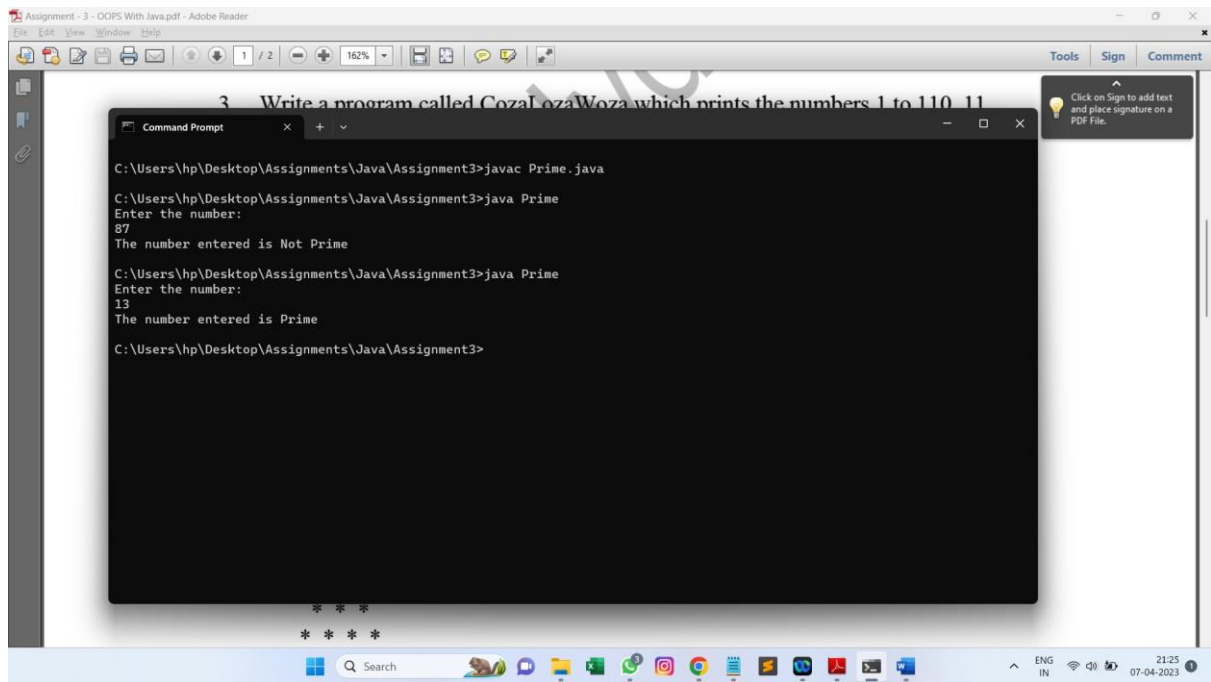
```java
import java.util.Scanner;
public class Star
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i = 0;i<n;i++){
          for(int j = n-i;j>1;j--){
            System.out.print(" ");
        }

            for(int j = 0;j<=i;j++){
            System.out.print("* ");
        }

            System.out.println();
    }
}}
```

```
C:\Users\hp\Desktop\Assignments\Java\Assignment3>javac Star.java

C:\Users\hp\Desktop\Assignments\Java\Assignment3>java Star
5
      *
    * *
   * * *
  * * * *
 * * * * *

C:\Users\hp\Desktop\Assignments\Java\Assignment3>
```

Q6:
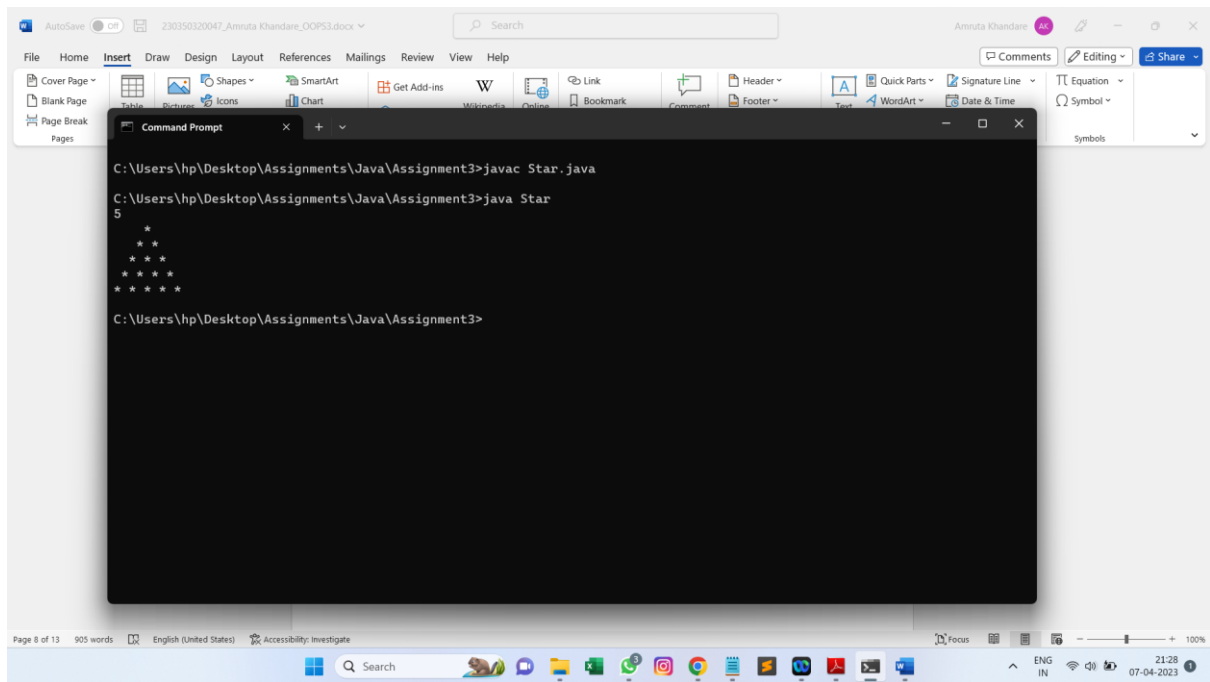
```java
import java.util.Scanner;
public class Zodiac
{
        public static void main(String args[]){
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter Month in number: ");
    int m = sc.nextInt();
    System.out.println("Enter Date in : ");
    int d = sc.nextInt();
    if((m == 1 && 20 <= d && d <= 31) || (m == 2 && 1 <= d && d <= 18)){
        if(m == 1){
        System.out.println("Zodiac sign for January "+d+" is Aquarius");
        }
        else{
        System.out.println("Zodiac sign for February "+d+" is Aquarius");
        }}
    else if((m == 2 && 19 <= d && d <= 29) || (m == 3 && 1 <= d && d <= 20)){
        if(m == 2){
        System.out.println("Zodiac sign for February "+d+" is Pisces");
        }
        else{
        System.out.println("Zodiac sign for March "+d+" is Pisces");
        }}
    else if((m == 3 && 21 <= d && d <= 31) || (m == 4 && 1 <= d && d <= 19)){
        if(m == 3){
```

```java
System.out.println("Zodiac sign for March "+d+" is Aries");
}
else{
System.out.println("Zodiac sign for April "+d+" is Aries");
}}
else if((m == 4 && 20 <= d && d <= 30) || (m == 5 && 1 <= d && d  <= 20)){
if(m == 4){
System.out.println("Zodiac sign for April "+d+" is Taurus");
}
else{
System.out.println("Zodiac sign for May "+d+" is Taurus");
}}
else if((m == 5 && 21 <= d && d <= 31) || (m == 6 && 1 <= d && d  <= 20)){
if(m == 5){
System.out.println("Zodiac sign for May "+d+" is Gemini");
}
else{
System.out.println("Zodiac sign for June "+d+" is Gemini");
}}
else if((m == 6 && 20 <= d && d <= 30) || (m == 7 && 1 <= d && d  <= 22)){
if(m == 6){
System.out.println("Zodiac sign for June "+d+" is Cancer");
}
else{
System.out.println("Zodiac sign for July "+d+" is Cancer");
}}
```

```java
else if((m == 7 && 23 <= d && d <= 31) || (m == 8 && 1 <= d && d  <= 22)){

    if(m == 7){

    System.out.println("Zodiac sign for July "+d+" is Leo");

    }

    else{

    System.out.println("Zodiac sign for August "+d+" is Leo");

    }}

else if((m == 8 && 23 <= d && d <= 31) || (m == 9 && 1 <= d && d  <= 22)){

    if(m == 8){

    System.out.println("Zodiac sign for August "+d+" is Virgo");

    }

    else{

    System.out.println("Zodiac sign for September "+d+" is Virgo");

    }}

else if((m == 9 && 23 <= d && d <= 30) || (m == 10 && 1 <= d && d  <= 22)){

    if(m == 9){

    System.out.println("Zodiac sign for September "+d+" is Libra");

    }

    else{

    System.out.println("Zodiac sign for October "+d+" is Libra");

    }}

else if((m == 10 && 23 <= d && d <= 31) || (m == 11 && 1 <= d && d  <= 21)){

    if(m == 10){

    System.out.println("Zodiac sign for October "+d+" is Scorpio");

    }

    else{
```

```java
        System.out.println("Zodiac sign for November "+d+" is Scorpio");

    }}
    else if((m == 11 && 22 <= d && d <= 31) || (m == 12 && 1 <= d && d  <=
21)){

        if(m == 11){

        System.out.println("Zodiac sign for November "+d+" is Sagittarius");

        }

        else{

        System.out.println("Zodiac sign for December "+d+" is Sagittarius");

    }}
    else if((m == 12 && 22 <= d && d <= 31) || (m == 1 && 1 <= d && d  <= 19)){

        if(m == 12){

        System.out.println("Zodiac sign for December "+d+" is Capricorn");

        }

        else{

        System.out.println("Zodiac sign for January "+d+" is Capricorn");

    }}
    else{

        System.out.println("Enter valid Month and Date");

    }
}
}
```

program will return the equivalent Zodiac sign.

Command Prompt

```
C:\Users\hp\Desktop\Assignments\Java\Assignment3>javac Zodiac.java

C:\Users\hp\Desktop\Assignments\Java\Assignment3>java Zodiac
Enter Month in number:
6
Enter Date in :
25
Zodiac sign for June 25 is Cancer

C:\Users\hp\Desktop\Assignments\Java\Assignment3>
```

Enter day: 25
Zodiac sign for June 25 is Cancer