Subject: "(23PGCA206)-Object Oriented Programming using Java"

1. Write a Program Armstrong Number is a positive number if it is equal to the sum of cubes of its digits is called Armstrong number and if its sum is not equal to the number then it's not a Armstrong number.

```
import java.util.*;
class Arm
  public static void main(String[] args)
  {
    int originalNum, digit, cubeSum = 0,num;
     System.out.print("Enter the number:");
     Scanner sc = new Scanner(System. in );
    num = sc.nextInt();
    originalNum = num;
    while (num!= 0)
    {
       digit = num % 10;
       cubeSum += Math.pow(digit, 3);
       num /= 10;
    }
    if(cubeSum == originalNum)
       System.out.println(originalNum+ " is an Armstrong number");
    else
```

Subject: "(23PGCA206)-Object Oriented Programming using <u>Java</u>"

```
System.out.println(originalNum+ " is not an Armstrong number");
}
```

Output:

D:\JAVA>java Arm
Enter the number:
153
153 is an Armstrong number

D:\JAVA>javac Arm.java

D:\JAVA>java Arm Enter the number:12345 12345 is not an Armstrong number

Subject: "(23PGCA206)-Object Oriented Programming using Java"

2. Write a Program a number is said to be Buzz Number if it ends with 7 or is divisible by 7.

```
import java.util.*;
class Cbno
      int no,rem,c=0;
      Scanner sc=new Scanner(System.in);
      Cbno(int no)
            if(no%10==7 || no%7==0)
            {
                  System.out.println("buzz");
            else
            {
                  System.out.println("not buzz");
class Buzz
      public static void main(String[] args)
            Scanner sc=new Scanner(System.in);
            System.out.print("Enter Buzz num:");
            int no=sc.nextInt();
```

Subject: "(23PGCA206)-Object Oriented Programming using <u>Java</u>"

//Cbno c1=new Cbno(); Cbno c=new Cbno(no); }

Output:

D:\JAVA>java Buzz Enter Buzz num:345 not buzz

D:\JAVA>javac Buzz.java

D:\JAVA>java Buzz Enter Buzz num:717 buzz

Subject: "(23PGCA206)-Object Oriented Programming using Java"

3. Write a program that takes three numbers and checks and then prints the greatest number

```
import java.util.Scanner;
class Gretest
      public static void main(String[] args)
            int a,b,c,large,ternary;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter first number:");
            a=sc.nextInt();
            System.out.println("Enter second number:");
             b=sc.nextInt();
            System.out.println("Enter third number:");
             c=sc.nextInt();
            ternary=a>b?a:b;
            large=c>ternary?c:ternary;
            System.out.println("the largest number is:"+large);
      }
}
```

Subject: "(23PGCA206)-Object Oriented Programming using Java"

Output:

D:\JAVA>javac Gretest.java

D:\JAVA>java Gretest

Enter first number:

20

Enter second number:

50

Enter third number:

90

the largest number is:90

Subject: "(23PGCA206)-Object Oriented Programming using Java"

4. Write a program that a Duck number is a number which has zeroes present in

it, but there should be no zero present in the beginning of the number.

```
import java.util.*;
class Cdno
      int no,rem,c=0;
      Scanner sc=new Scanner(System.in);
      Cdno()
            System.out.println("enter number");
            no=sc.nextInt();
            while(no!=0)
            {
                  rem=no%10;
                   if(rem==0)
                         C++;
                   no=no/10;
            if(c>0)
            {
                  System.out.println("Duck");
            }
            else
            {
                  System.out.println("not duck");
```

Subject: "(23PGCA206)-Object Oriented Programming using Java"

```
}
      }
class Duck
      public static void main(String[] args)
            Scanner sc=new Scanner(System.in);
            Cdno c=new Cdno();
            // int no=sc.nextInt();
     }
}
Output:
D:\JAVA>java Duck
enter number
40003
Duck
D:\JAVA>javac Duck.java
D:\JAVA>java Duck
enter number
23456
not duck
```

Subject: "(23PGCA206)-Object Oriented Programming using Java"

5. Write a program that Floyd Triangle.

```
class Loop5
       public static void main(String[] args)
             int n=5;
             int i, j, k = 1;
             for(i=1;i<=n;i++)
                    for(j=1; j<=i;j++)
                           System.out.print(k+" ");
                           k++;
                    System.out.println("\n");
             }
      }
}
```

Subject: "(23PGCA206)-Object Oriented Programming using Java"

Output:

D:\JAVA>javac Loop5.java

D:\JAVA>java Loop5

1

23

456

78910

11 12 13 14 15