- Conditional Statement :-

These are executable block of code, dependent on certain conditions. These are also known as Selection statement.

Ex ⇒ Take the salary as input and give bonus according to it:
Note :- if salary is > 10,000 give 2,000 rs or else give 1,000 rs.

↳

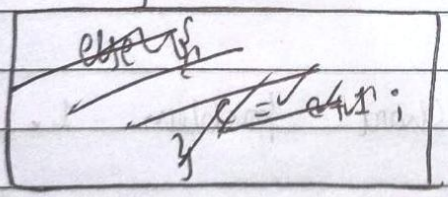
```
import java.util.*
public class main
{
    public static void main (String [] args)
    {
        Scanner sc = new Scanner (System.in);
        int n = sc.nextInt ();
        if (n>10,000)
        {
            n += 2000;
        }
        else {
            n+= 1000;
        }
        Sys.o (n);
    }
}
```

Q>> W.A.C. for prime number :-

→ This class can be access from anywhere.

↳

```
public class prime
{
    public static void main (String [] args)
    {
        Scanner SC = new Scanner (System.in);
        int N = SC.nextint ();
        C = 2
        for (C=2 ; C*C<N ; C++) // we can use C only instead of C*C.
        {
            if (N%.C ==0)
            {
                Syso ("not a prime");
            }
```



```
            Syso ("Prime");
        }
    }
```

③→ Take input of two no and calculate according the oprators. (+, -, *, /)

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

```
{
    Scanner sc = new Scanner (System.in);
    Char Symbol = sc.next().charAt(0);
    int n1 = sc.nextInt();
    int n2 = sc.nextInt();

    if (Symbol == '+')
    {
        Syso (n1 + n2);
    }
    else if (Symbol == '-')
    {
        Syso (n1 - n2);
    }
    else if (Symbol == '*')
    {
        Syso (n1 * n2);
    }
    else {
        Syso (n1 / n2);
    }
}
}
```

• Loops :-

Loops is used to iterate a part of the program several times. If no of iteration is fixed, so use for loops otherwise use while loops.

↳ i) For loops :-

① → Print all the even no upto 100.

```
public class mains
{
public static void main (String [] args)
{
  int n = 100;
for (int i=0; int<=n ; i++)
{
  if (i%2 == 0)
{
  Syso (i);
}
}
}
}
```

ii> while loops :-

- W.A.P. to print all the odd no in range. Take input from user.

```
import java.util.*;
public class while
{
    public static void main (String[] args)
    {
        Scanner SC = new Scanner (System.in);
        int I = SC.nextInt ();
        int n = 1;

        while (n<=I)
        {
            if (n%2 != 0)
            {
                Sysо (n);
            }
            n++;
        }
    }
}
```

- More questions and programs has been solved in my repository.

link :- https://github.com/Adityamishra45/DSA-WITH-JAVA.git

- Java program for fibonacci series.

```
import java.util.*;
public class Main
{
  public static void main (String[] args)
  {
    Scanner sc = new Scanner (System.in);
    int n = sc.nextInt ();

    int a = 0;
    int b = 1;
    int c = 2;
    for (int i=0; i<=n; i++)
    {
      a = b;
      b = c;
      c = a+b;
      Sys.o (a+" ");
    }
  }
}
```

- Print all the factors of that number.

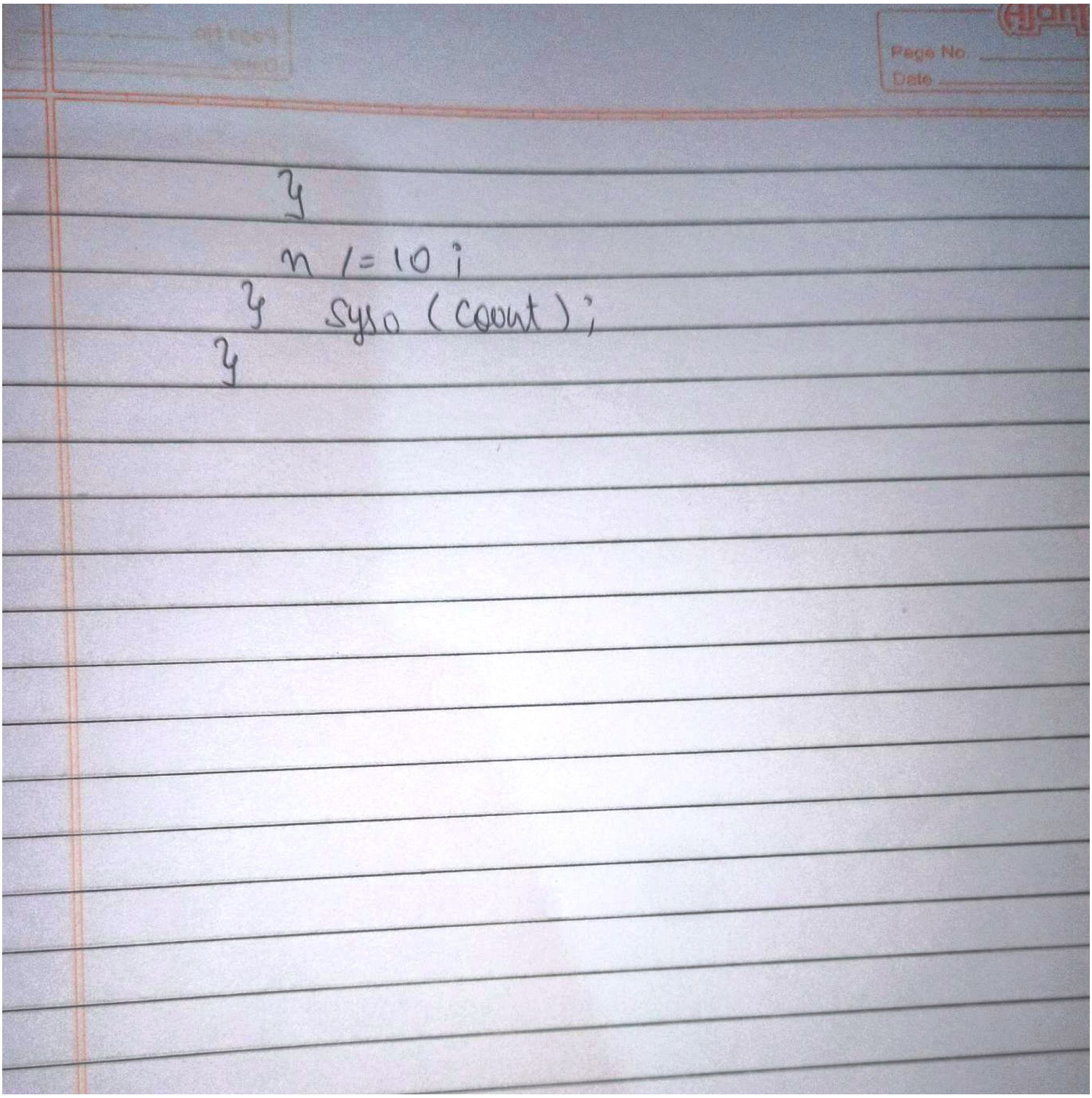
```
import java.util.*;
public class main
{
  public static void main (String[] args)
  {
```

```
Scanner sc = new Scanner (System.in);
int n = sc.nextInt ();

for (int i = 0; i <= n; i++)
{
    if (n % i == 0)
    {
        Sys0 (i)
    }
}
}
}
```

- write ~~a~~ a program which will print the number of times a number has appeared.

↳

```
import java.util.*;
public class main
{
public static void main (String[] args)
{
    Scanner sc = new Scanner (System.in);
    long n = sc.nextLong ();
    int count = 0;

    while (n>0)
    {
        if (n%10 == 5)
        {
            count++;
```


Page No.
Date
}
n /= 10 ;
} sys.o (cout);
}