10/7/21
WEDNESDAY

JAVA

VIVEK A
192321156
B TECH - I.T.

1) Sum of Natural Numbers

10/07/21

```
Class Main {
Public static void main (String [] args) {
  int n;
  int sum=0;
  for (i=0; i<100; i++)
  {
     sum = sum+i
  }
System. out println(sum)
}
```

2) Check the sum is prime

```
class Main {
  Public static void main (String [] args) {
  int n;
  for (i=0; i<=n; i++)
  {
     if n % i == 0{
  System. out. println (prime)
     else
  System. out println( not prime)
     }
  }
}
```

3) To find factorial

```
class Main {
  public static void main (string [] args)
{
    int n, fact = 1
  for (int i=0; i<=n; i++) {
     fact = fact * i
}
  System. out. print (n (fact) }
```

4) Fiboracci Series

```
class Main {
  public static void main (String[] args){
    int a=0;
    int b=1;
    int c,n;
    c=a+b;
    c=a;
    a=b;
    System.out.println(c);
  }
}
```

5) Reverse a ~~String~~ number

```
class Main{
public static void main (String[]arg) {
  int reversed = 0, Original, v, n;
  while (n>0){
    v = n%.10;
  Original = reversed * 10 + 9;
    n = n/10}
  if Original == reversed {
    System.out.println (reverse num);
  }
```

6) Palindrome

```
class Main {
public static void main (String [] args){
    int reversed = 0; Original, v, n
      while (n>0) {
        n = n%.10
        Original = reversed *10 +n
          n /.= 10.
```

```
Class Main()
    public static void main(String[] args){
        int n, sum, r;
        while (n>0):
            r = n%10;
            sum = sum + (r*r*r)
            n/10;
        if (n==sum){
        System.out.println(armstrong)
    else
        System.out.println(not);
    }
}
```

Sum of digit

```
class Main {
    public static void main (String [] args) {
        int n, sum, r;
        while (n>0){
            n=r%10;
            sum = sum+r;
            n/10;
        }
        System.out.println(sum);
    }
}
```

Square Root

```
import java.util
class Main {
    public static void main (String[] args) {
        int n;
        System.out.println(sqrt(n));
    }
}
```

10) Leap year

```
class Main {
public static void main (String[], args) {
    int n;
  if (n%.4 == 0) {
     System.out.println (leap year);
  else:
     system.out.println (not);
  }
}
```

11) Number divisible by 5 & 7:-

```
Class Main {
  public static void main (String[], args) {
    int n;
  if (n%.5 == 0 and if n%.7 == 0) {
     System out.println ("divisible");
  else;
     System out.println ("not");
  }
}
```

12) Decimal to binary:-

```
class Main {
    public, static void main (string [], args) {
    string binary = "10010";
    int decimal = binary to decimal (binary);
    System.out.println (decimal);
  }
}
```

13) ~~Binary to decimal~~ Cel to fahrenit

```
Class Main {
Public static void main (string [], args) {
  double Celcius = 20.0;
  double fahrenhite = (celcius * 1.8) + 32;
  System.out.println (celcius + " is equal to " + fahrenit + "F");
```

Binary to Decimal

```
class Main {
    public static void Main (String [], args) {
        String binary = "10010";
        int decimal = 45;
        String binary = decimal to binary (decimal);
        System.out.println (binary);
    }
}
```

15) Fahrenheit to Celsius

```
class Main{
    public static void main (String [], args){
        double fahrenheit = 68.0;
        double celsius = (fahrenheit - 32) * 0.556;
        System.out.println (fahrenheit + "fa is equal to" + celsius + "C");
    }
}
```

16) GCD:

```
class Main {
    public static void main (String [], args)
        int a, b, gcd;
        if (b == 0) {
            return a
        } return gcd (b, a%b);
    }
    int num1 = 30, num2 = 20
    int result = gcd (num1, num2)
    System.out.println (result);
}
```

17) LCM

```
Public class Main {
    Public static int gcd (int a, int b) {
        if (b == 0) {
            return a;
        }
        return gcd (b, a % b);
    }
    public static int lcm (int a, int b) {
        return (a * b) / gcd (a, b);
    }
    Public static void main (String[], args) {
        int num1 = 12, num2 = 15
        int result = (lcm (num1, num2);
        System.out.println (result);
    }
}
```

18) Perfect number

```
class Main {
    public static void (String[], args)
        long n, sum = 0;
        int i = 1;
        while (i <= n/2)
        {
            if (n % i == 0)
            {
                sum = sum + i;
            }
            i++;
        if (sum == n)
        {
            System.out.println ("perfect");
        else
            System.out.println ("not");
        }
}
```

1) Happy Number

```
class Main{
public static void main (String [],args){
    int rem =0, sum = 0; int num;
  while (num>0)
    rem = num%.10;
    sum = sum + (rem* rem);
    num /= 10;
  }
  return sum;
}
if (result ==1)
  System.out.println("happ number");
else
   System.out.println("Not");
}
```

2) Sum of Odd numbers

```
class Main {
  public static main ( String[],args] {
    int i, sum=0;
    int n;
    for (i=1; i<=n; i+=2) {
      if (i%.4==1)
        sum = sum + i;
      else
        sum = sum - i;
      }
        System.out.println(sum);
    }
  }
```