25.09.24

Week 0

1 Program to print "Hello World"

```
class hello_world
{
  public static void main (String a[])
  {
    System.out.println ("HELLO WORLD");
  }
}
```

Output: HELLO WORLD

2 Program to check if a triangle is equilateral, scalene, isosceles

```
class triangle
{
  public static void main (String a[])
  {
    int x=5, y=10, z=5;
    if (x==y && y==z)
      System.out.println ("Equilateral");
    else if (x==y || y==z || z==z)
      System.out.println ("Isosceles");
    else
      System.out.println ("Scalene");
  }
}
```

Output: Isosceles

3. Program to ~~print~~ Check if a number is prime or not

```
class prime_number
{
  public static void main (String a[])
  {
    int num = 33;
    boolean isPrime = true;
    if(num <= 1)
    {
      isPrime = false;
    }
    else{
      for(int i = 2; i<= Math.sqrt(num); i++)
      {
        if(num%i==0)
        {
          isPrime = false;
          break;
        }
      }
    }
    if(isPrime)
      System.out.println(num+" is prime number");
    else
      System.out.println(num+" is not prime number");
  }
}
```

Output: 33 is not prime number

4. Program to print fibbonacci series.

```
class fibbonaci
{
  public static void main (String a[])
  {
    int n1=0, n2=1, n3, K, count = 6;
    System.out.println("n1+" "+n2);
    for(K=2; K<count; K++)
    {
```

```
        n3 = n1 + n2;
        System.out.println(" " + n3);
        n1 = n2;
        n2 = n3;
      }
    }
}
```

Output : 0 1 1 2 3 5

5 Program to calculate simple interest

```
class simple interest
{
    public static void main (String a[])
    {
        int double si, p=5000, t=3, r=3.5;
            si = (p*t*r)/100;
            System.out.println (si + " ");
    }
}
```

Output : 525.0

6 Program to swap

```
class swap
{
    public static void main (String a[])
    {
        int x = 5000, y = 2000;
        int temp = x;
            x = y;
            y = temp;
        System.out.println (" After : ");
        System.out.println (x + " = x");
        System.out.println (y + " = y");
    }
}
```

Output :

After swap:

x = 2000;

y = 5000;

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