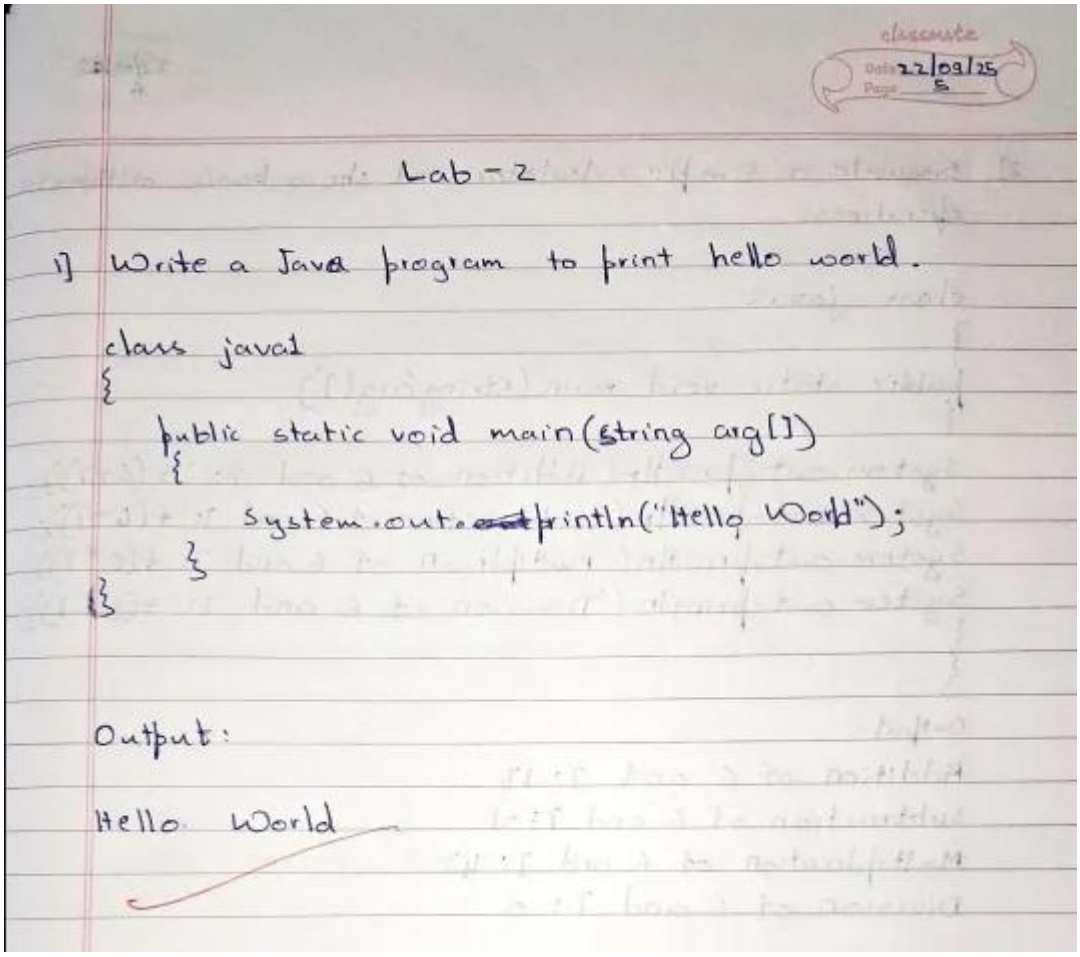
1] SAMPLE JAVA PROGRAM

```
class java1
{
	public static void main(String arg[])
		{
			System.out.println("Hello World");
		}
}
```

```
C:\Users\tador\OneDrive\Desktop>javac test.java

C:\Users\tador\OneDrive\Desktop>java java1
Hello World
```



Lab - 2

1] Write a Java program to print hello world.

```
class java1
{
   public static void main(String arg[])
   {
      System.out.println("Hello World");
   }
}
```

Output:

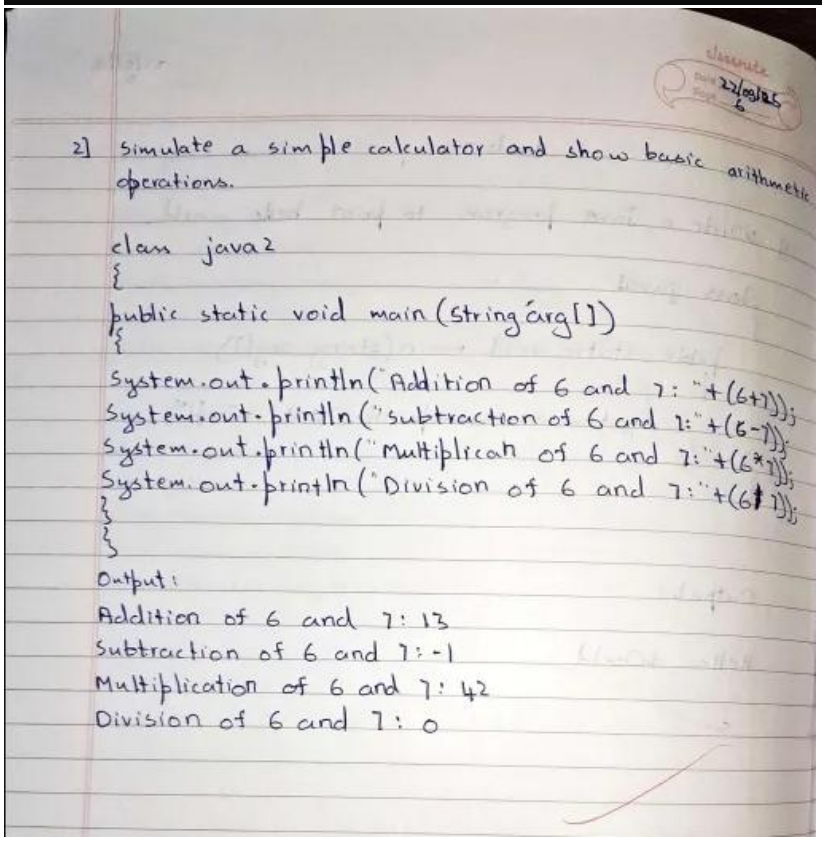
Hello World

2] Simulate a simple calculator and show the add, subtract, multiply and divide options.

```
class java2
{
	public static void main(String arg[])
	{
		System.out.println("Addition of 6 and 7 : "+(6+7));
		System.out.println("Subtraction of 6 and 7 : "+(6-7));
		System.out.println("Multiplication of 6 and 7 : "+(6*7));
		System.out.println("Division of 6 and 7 : "+(6/7));
	}
}
```

```
C:\Users\tador\OneDrive\Desktop>javac test.java

C:\Users\tador\OneDrive\Desktop>java java2
Addition of 6 and 7 : 13
Subtraction of 6 and 7 : -1
Multiplication of 6 and 7 : 42
Division of 6 and 7 : 0
```



2] simulate a simple calculator and show basic arithmetic operations.

```
class java2
{
public static void main (String arg[])
{
System.out.println("Addition of 6 and 7: "+(6+7));
System.out.println("subtraction of 6 and 7:"+(6-7));
System.out.println("Multiplicat of 6 and 7:"+(6*7));
System.out.println("Division of 6 and 7:"+(6/7));
}
}
```

Output:

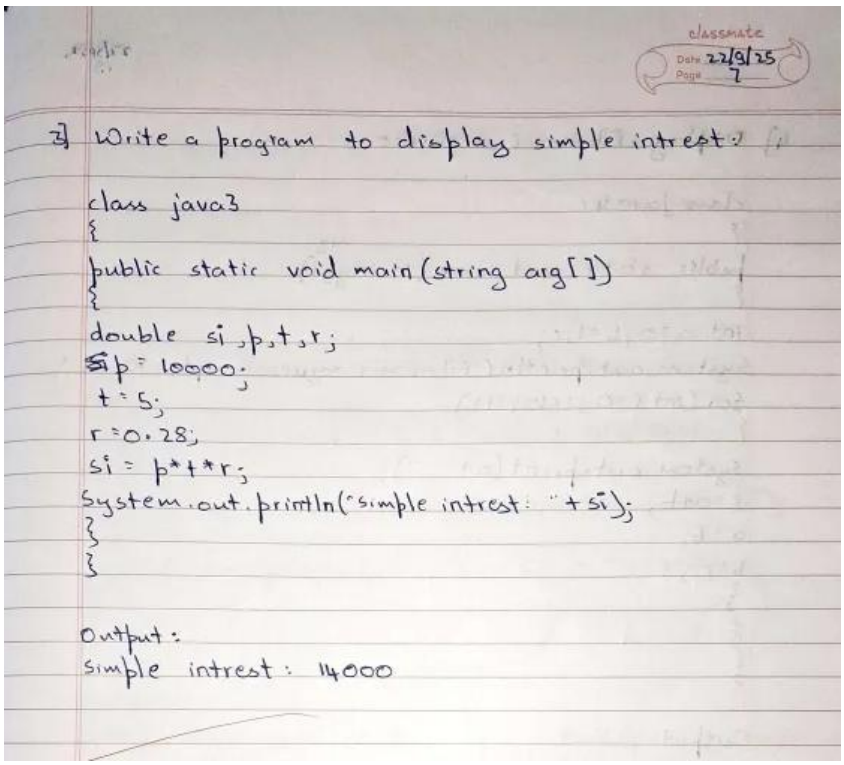
```
Addition of 6 and 7: 13
Subtraction of 6 and 7: -1
Multiplication of 6 and 7: 42
Division of 6 and 7: 0
```

3] Write a Java program to calculate simple interest.

```
class java3
{
	public static void main(String arg[])
	{
		double si,p,t,r;
		p=10000;
		t=5;
		r=0.28;
		si=p*t*r;
		System.out.println("Simple Intrest: "+si);
	}
}
```

```
C:\Users\tador\OneDrive\Desktop>javac test.java

C:\Users\tador\OneDrive\Desktop>java java3
Simple Intrest: 14000.000000000002
```



3] Write a program to display simple intrest:

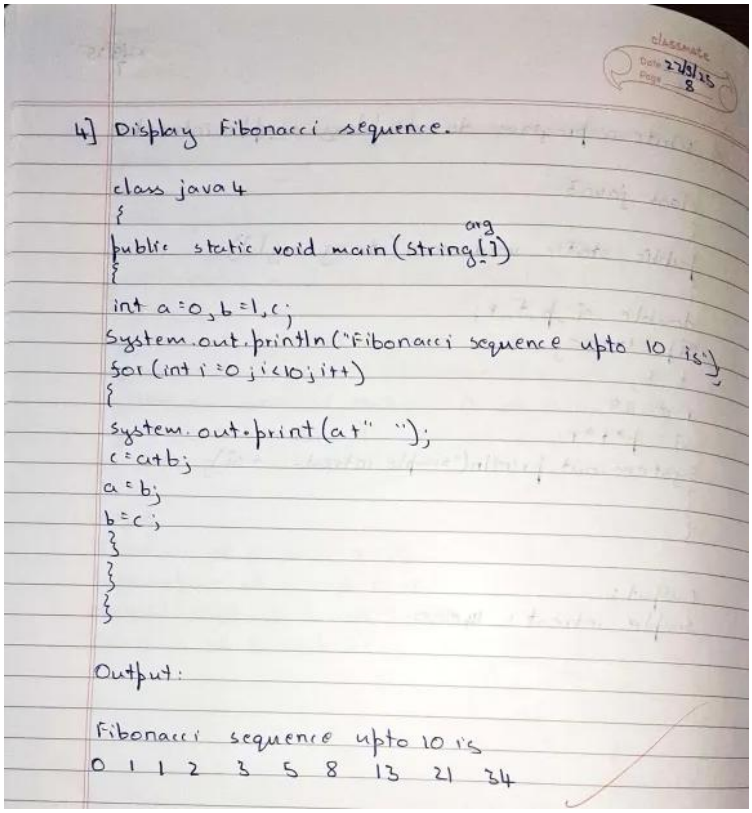
```
class java3
{
public static void main(string arg[])
{
double si,p,t,r;
p = 10000;
t = 5;
r = 0.28;
si = p*t*r;
System.out.println("simple intrest: "+si);
}
}
```

Output:
simple intrest: 14000

4] Write a Java program to generate Fibonacci series.

```
class java4
{
	public static void main(String arg[])
	{
		int a=0,b=1,c;
		System.out.println("Fibonacci series upto 10 numbers is");
		for(int i=0;i<10;i++)
			{
				System.out.print(a+" ");
				c=a+b;
				a=b;
				b=c;
			}
	}
}
```

```
C:\Users\tador\OneDrive\Desktop>java java4
Fibonacci series upto 10 numbers is
0 1 1 2 3 5 8 13 21 34
```



4] Display Fibonacci sequence.

```
class java4
{
public static void main(String arg[])
{
int a=0,b=1,c;
System.out.println("Fibonacci sequence upto 10 is:");
for(int i=0;i<10;i++)
{
system.out.print(a+" ");
c=a+b;
a=b;
b=c;
}
}
}
```

Output:

```
Fibonacci sequence upto 10 is
0 1 1 2 3 5 8 13 21 34
```

5] Write a Java program to print multiplication table of 3 and 5.

```
class java5
{
	public static void main(String arg[])
	{
		int i;
		System.out.println("Multiplication table of 3");
		for(i=1;i<=10;i++)
			System.out.println("3 x "+i+" = "+(3*i));
		System.out.println("Multiplication table of 5");
		for(i=1;i<=10;i++)
			System.out.println("5 x "+i+" = "+(5*i));
	}
}
```

```
C:\Users\tador\OneDrive\Desktop>javac test.java

C:\Users\tador\OneDrive\Desktop>java java5
Multiplication table of 3
3 x 1 = 3
3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18
3 x 7 = 21
3 x 8 = 24
3 x 9 = 27
3 x 10 = 30
Multiplication table of 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```

5] Display multiplication tables of 3 & 5.

```
class java5
{
public static void main(string arg[])
{
int i;
system.out.println(" Multiplication table of 3");
for (i=1;i<=10;i++)
system.out.println("3 x "+i+" = "+(3*i));
for(i=
system.out.println("Multiplication table of 5");
for(i=1;i<=10;i++)
system.out.println("5 x "+i+" = "+(5*i));
}
}
```

Output:

Multiplication table of 3

3 x 1 = 3
3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18
3 x 7 = 21
3 x 8 = 24
3 x 9 = 27
3 x 10 = 30

Multiplication table of 5

5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50

6] Write a Java program to print factorial of a given number.

```
class java6
{
	public static void main(String arg[])
	{
		int i,f=1;
		for(i=1;i<=5;i++)
		f*=i;
		System.out.println("Factorial of 5 is: "+f);
	}
}
```

```
C:\Users\tador\OneDrive\Desktop>javac test.java

C:\Users\tador\OneDrive\Desktop>java java6
Factorial of 5 is: 120
```