

① write a program to print Hello world

```
import java.util.*;
```

```
class helloworld
```

```
{ public static void main (String args[])
{ system.out.println ("Hello World");
}
```

Output : CS Gajanan Mayale (BM22CS227)

Hello World

② Program to find area of the rectangle using parseInt()

```
class area
```

```
{ public static void main (String args[])
{ int len, breadth;
len = Integer.parseInt (args[0]);
breadth = Integer.parseInt (args[1]);
int area = len * breadth;
System.out.println ("length of rectangle = " + len);
System.out.println ("breadth of rectangle = " + breadth);
System.out.println ("area of rectangle = " + area);
}
```

Output : CS. Gajanan Mayale (BM22CS227)

length of rectangle = 10

breadth of rectangle = 8

area of rectangle = 80

③ Write a program for scanner (the class takes three arguments, one string)

```
import java.util.Scanner;  
class Scanner  
{  
    public static void main (String args[])  
    {  
        int a; float b; String s;  
        Scanner in = new Scanner (System.in);  
        System.out.println ("enter a string:");  
        s = in.nextLine();  
        System.out.println ("You entered string "+s);  
        System.out.println ("enter an integer:");  
        a = in.nextInt();  
        System.out.println ("You entered integer "+a);  
        System.out.println ("enter a float:");  
        b = in.nextFloat();  
        System.out.println ("You entered float "+b);  
    }  
}
```

Output: (S Gajaraonayak 01BM22CS27)

enter a string:

me

You entered string me

enter an integer:

4

You entered integer 4

enter a float:

9.8

You entered float 9.8

④ write

class

{

public

{

int

System

}

}

Output

April

⑤ write

import

class

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④ Write an example for array.

```

class Autarray
{
    public static void main (String args[])
    {
        int month_days [] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
        System.out.println ("April has " + month_days [3] + " days.");
    }
}

```

Output: (S Gajanana Mayak 1BM22CS227)
April has 31 days.

⑤ Write a program to check if number is palindrome

```

import java.util.Scanner;
class palindrome
{
    public static void main (String args[])
    {
        int n, t, rem, rev = 0;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter a 5 digit number:");
        n = sc.nextInt();
        t = n;
        while (t > 0)
        {
            rem = t % 10;
            rev = rev * 10 + rem;
            t = t / 10;
        }
        if (rev == n)
        {
            System.out.println ("palindrome");
        }
        else
        {
            System.out.println ("not palindrome");
        }
    }
}

```

Output (S Gajanan Nayak I BM22CS227)

enter a 5 digit number:

12321

palindrome

enter a 5 digit number

12345

not palindrome

⑥ Program for factorial

```
import java.util.Scanner;
```

```
class fact {
```

```
public static void main(String args[])
```

```
{
```

```
int fac=1;
```

```
System.out.println("enter a number:");
```

```
Scanner sc = new Scanner(System.in);
```

```
int n = sc.nextInt();
```

```
for(int i=1; i<=n; i++) {
```

```
    fac = fac*i;
```

```
}
```

```
System.out.println("the factorial : "+fac);
```

```
}
```

```
}
```

Output: (S Gajanan Nayak I BM22CS227)

enter a number: 5

the factorial : 120

⇒ Lab

Output

enter t

1

-5

9

roots

root1

root2

Output

enter t

1 2

roots

root1 =

Output

enter

0 4

not 0

enter

1

roots

root1 =

root2 =

Lab Program 1 (Quadratic Eqn)

18M22CS227

Output 1:

enter the coefficients of a, b, c

1

-5

9

roots are real and distinct

$$\text{root1} = 4.5615328128$$

$$\text{root2} = -4.5615328128$$

Output 2:

enter the coefficients of a, b, c

1 2 1

roots are real and equal

$$\text{root1} = \text{root2} = -1.0$$

Output 3:

enter the coefficients of a, b, c

0 4 5

not a quadratic equation

enter a non-zero value for a:

1

roots are imaginary

$$\text{root1} = -2.0 + i\text{NaN}$$

$$\text{root2} = -2.0 - i\text{NaN}$$

⑦ Find sum of 5 digits number

```

import java.util.*;
class digits {
    public static void main (String args[]) {
        long number, sum;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter a 5-digit number:");
        number = sc.nextLong();
        for (sum = 0; number != 0; number = number / 10) {
            sum = sum + number % 10;
        }
        System.out.println ("Sum of digits: " + sum);
    }
}

```

Output {S Gajana Nayak IBM22CS227}

Enter a 5-digit number:

12345

Sum of digits: 15