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1 BM22CS220

① class helloWorld

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

```
{ System.out.println("helloWorld"); }
```

O/P:- helloWorld

② class rectangle Area {

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

```
int length, breadth;
```

```
length = Integer.parseInt(args[0]);
```

```
breadth = Integer.parseInt(args[1]);
```

```
int area = length * breadth;
```

```
System.out.println ("length=" + length);
```

```
System.out.println ("breadth=" + breadth);
```

```
System.out.println ("Area=" + Area);
```

O/P:-  
length=5

breadth=5

Area=25

③ Array :-

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

O/P → April has 30 days.

④

```
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);  
    }  
}
```

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Op:

enter a string:

revauth

You entered string revauth

Enter an integer

3

You entered integer 3

- enter a float

3.5

You entered float 3.5

⑤

```
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 :-

Enter a 5 digit number:

12321

Palindrome

Enter a 5 digit number

12345

not palindrome

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## ⑥ Quadratic :-

O/p :-

Output 1:

Enter the coefficients of a, b, c

1

-5

2

roots are real and distinct

root1 = 4.5615528128

root2 = 4.5615528128

Output 2 : enter the coefficients of a, b, c

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1 2 1

roots are real and equal

root 1 = root 2 = -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

root 1 = -2.0 + iNaN

root 2 = -2.0 - iNaN

⑦

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 );

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Output:-

Enter a number:

5

The factorial is :

120

⑧

```
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:-

Enter a 5-digit number:

12345

Sum of digits = 15

12345  
1+2+3+4+5=15