

1. // To print Hello World.

→ class HelloWorld

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

2. // largest of 3 numbers

→ import java.util.Scanner;

```
✓ class largest  
{
```

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

```
        int num1, num2, num3;  
        Scanner in = new Scanner (System.in);  
        System.out.print ("Enter first number: ");  
        num1 = in.nextInt();  
        System.out.print ("Enter second number: ");  
        num2 = in.nextInt();  
        System.out.print ("Enter third number: ");  
        num3 = in.nextInt();
```

```
        if (num1 > num2 && num1 > num3)  
        {
```

```
            System.out.println ("The largest number = " + num1);  
        }
```

```
        else if (num2 > num1 && num2 > num3)  
        {
```

```
            System.out.println ("The largest number = " + num2);  
        }
```

```
        else
        {
            System.out.println("largest number - " + num3);
        }
    }
}
```

3. // numbers from 1 to n.

```
→ import java.util.Scanner;
class ForLoop
{
    public static void main (String args[])
    {
        int n;
        print
        System.out.print("Enter the value of n - ");
        Scanner in = new Scanner (System.in);
        n = in.nextInt();
        System.out.println(" result - ");
        for (int i = 1; i <= n; i++)
        {
            System.out.println(i);
        }
    }
}
```

4 // number pattern

```
→ import java.util.Scanner;  
class NumPattern  
{  
    public static void main (String args [ ] )  
    {  
        int rows, k=1;  
        System.out.print ("Enter no. of rows : ");  
        Scanner in = new Scanner (System.in);  
        rows = in.nextInt();  
        System.out.println ("Pattern - ");  
  
        for (int i = 0; i < rows; i++)  
        {  
            for (int j = 1; j <= i; j++)  
            {  
                print  
                System.out.print ( " " + " " );  
            }  
            System.out.println ();  
        }  
    }  
}
```

5. // To print grades of students.

```
→ import java.util.Scanner;  
class Grade  
{  
    public static void main (String args [ ] )  
    {  
        float cie, see, final_marks;  
        char grade;  
        Scanner in = new Scanner (System.in);  
        System.out.print ("Enter CIE marks (out of 50) : ");  
        cie = in.nextDouble();  
        System.out.print ("Enter SEE marks (out of 100) : ");  
        see = in.nextDouble();  
        final_marks = cie + (see / 2);  
        if (final_marks > 90 && final_marks <= 100)  
        {  
            System.out.println ("Grade - S");  
        }  
        else if (final_marks > 80 && final_marks <= 90)  
        {  
            System.out.println ("Grade - A");  
        }  
        else if (final_marks > 70 && final_marks <= 80)  
        {  
            System.out.println ("Grade - B");  
        }  
        else if (final_marks > 60 && final_marks <= 70)  
        {  
            System.out.println ("Grade - C");  
        }  
        else if (final_marks > 50 && final_marks < 60)  
        {  
            System.out.println ("Grade - D");  
        }  
        else if (final_marks > 40 && final_marks < 50)  
        {  
            System.out.println ("Grade - E");  
        }  
    }  
}
```

```
else if (final-marks >= 0 && final-marks <= 40)
{
    System.out.println ("Grade - F");
}
else
{
    System.out.println ("Wrong Input");
}
```

6. // prime numbers b/w 2 integers

→ import java.util.Scanner;

class Prime

{

public static void main (String args [ ])

{

int num1, num2;

Scanner in = new Scanner (System.in);

System.out.print ("Enter the first number : ");

num1 = in.nextInt();

System.out.print ("Enter the second number : ");

num2 = in.nextInt();

System.out.println ("Prime numbers b/w the two numbers - ");

while (num1 < num2)

{

boolean flag = false;

for (int i=2; i <= num1/2; ++i)

{

if (num1 % i == 0)

{

flag = true;

break;

}

}

if (!flag && num1 != 0 && num1 != 1)

{

System.out.print (num1 + " ");

++num1;

}

}

## 7. // C program

```
→ #include <stdio.h>
```

```
#include <stdlib.h>
```

```
struct Student
```

```
{ char name [50];
```

```
    int elect;
```

```
};
```

```
int main()
```

```
{
```

```
    int i, j, n, temp, least, choice;
```

```
    int count [3] = { 0, 0, 0 };
```

```
    char elective [3] [50] = { "IOT", "J2EE", "Advanced Java",  
        "Advanced Data Structures" };
```

```
    printf("Enter no. of students: ");
```

```
    scanf("-%d", &n);
```

```
    struct Student student [n];
```

```
    for (i=0; i<n; i++)
```

```
    { printf("In %d - %s", i+1, elective [i]);
```

```
    for (i=0; i<n; i++)
```

```
    { printf("In Enter the name of Student: ");
```

```
    scanf("-%s", &student [i].name);
```

```
    printf("In Enter the choice: ");
```

```
    scanf("-%d", &student [i].elect);
```

```
    for (i=0; i<n; i++)
```

```
    { if (student [i].elect == 1)
```

```
    { count [0]++;
```

```
}
```

```
else if (student [i].elect == 2)
```

```
    { count [1]++;
```

```
}
```