04 July 2023 15:06

• WRITE A PROGRAM TO PRINT FIRST 10 FIBONACCI SERIES

```
0, 1, 1, 2,3
N1 = 0
             n1 = \frac{1}{1} n1 = \frac{1}{1} n1 = \frac{2}{1}
            n2 = 1 n2 = 2 n2 = 3
N2 = 1
N3 = <mark>1</mark>
         N2 = n1
N3 = n2
class Test1
      public static void main(String[] args)
            int n1 = 0, n2 = 1, n3, count = 10;
            for (int i=0; i<count; i++)
            {
                  n3 = n1 + n2;
                  System.out.println(n3);
                  n1 = n2;
                  n2 = n3;
            }
}
```

• WRITE A PROGRAM TO FIND THE FACTORIAL OF GIVEN NUMBER

```
Num = 3

1,3

4! = 24

11! = 3,99,16,800

5! = 120

6! = 720

8! = 40.320
```

```
6! = 720
8! = 40,320
```

```
3! = 1*2*3 = 6
                                     4!=
4! = 1*2*3*4 = 24
                                     1*2*3*4
                                     1*2 = a
                                     a*3 = a
                                     a*4 = a
class Test1
      public static void main(String[] args)
            int num = 8;
            int factorial = 1;
            for (int i=1; i<=num; i++)
                  factorial = factorial*i;
            System.out.println(factorial);
      }
}
```

WHILE LOOP

• WRITE A PROGRAM TO PRINT -5 TO 5 BY USING WHILE LOOP

```
class Test1 {
```

```
public static void main(String[] args)
           int i = -5;
           int num = 5;
           while (i<=num)
                 System.out.println(i);
           }
     }
}
     WRITE A PROGRAM TO PRINT THE ODD NUMBERS BETWEEN 20 AND 100
     class Test1
            public static void main(String[] args)
                 int i = 20;
                 int num = 100;
                 while (i<=num)
                       if (i%2 != 0)
                             System.out.println(i);
                       }
                       i++;
                 }
           }
     }
     WRITW A PROGRAM TO PRINT THE SUM OF THE RANGE 1 - 100
     class Test1
            public static void main(String[] args)
                  int i = 1;
                 int num = 100;
                 int sum = 0;
                 while (i<=num)
                 {
                       sum = sum+i;
                       i++;
                 }
                 System.out.println("Sum of the 1-100 is "+ sum);
```

```
}
```

• WRITE A PROGRAM TO FIND THE FACTORS OF A GIVEN NUMBER