

Placement Preparation Test 2

Q.1) Find factorial of a number using Recursive function

Ans :- public class Factorial{

```
    public static void main(String[] args) {  
        int n = 5;  
        int result = factorial(n);  
        System.out.println("Factorial of " + n + " is: " + result);  
    }  
    public static int factorial(int n){  
        if(n == 0 || n == 1){  
            return 1;  
        }  
        return n * factorial(n-1);  
    }  
}
```

Q.2) Find Fibonacci series in following pattern

1
2 3
5 8 13

Ans :- public class Fibonacci {

```
    public static void main(String[] args) {  
        int n = 6;  
        int a = 1; int b = 2;  
        for(int i = 1; i<=n; i++){  
            System.out.print(a + " ");  
            int c = a + b;
```

```

    a = b;

    b = c;

    if(i == 1 || i == 3){

        System.out.println();

    }

}

}

```

Q.3) Solve following pattern

```

1)  3                2) * * *
    3 2 3            * *
    3 2 1 2 3        *
    3 2 3
    3

```

Ans :- public class Pattern_star {

```

    public static void main(String[] args) {

```

```

        for(int i = 3; i>=1; i--){
            for(int j = 1; j <= i; j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

Q.4) Print binary of a number in reverse order eg. Input 4 O/P 0 0 1

Ans :- public class Reverse_Binary {

```
public static void main(String[] args) {  
  
    int n = 13;  
    System.out.print("Reverse Binary: ");  
    while(n > 0){  
        System.out.print(n % 2);  
        n = n / 2;  
    }  
}  
}
```