

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;  
    }  
}
```

```

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;  
  
    }  
  
}  
}
```