

DAY03 PAPER

package DAY03;

import java.util.Scanner;

public class PaperQuestion1 {

 public static void main(String[] args) {
 //Q find the factorial of number using recursive function

 Scanner sc = new Scanner(System.in);

 System.out.println("Enter a number");

 int no= sc.nextInt();

 int m =fact(no);

 System.out.println(m);

}

 public static int fact(int n)

{

 int f;

 if(n==1||n==0)

{

 return 1;

 }else

{

 f=n*fact(n-1);

}

 return f;

}

Q2) package DAY03;

```
public class PaperQuestion2 {  
  
    public static void main(String[] args) {  
        int a=1,b=2;  
        int c;  
        int r=3;  
  
        for(int i=1;i<=3;i++)  
            for(int j=1;j<=i;j++)  
            {  
                System.out.print(a+" ");  
                c=a+b;  
                a=b;  
                b=c;  
            }  
        System.out.println();  
    }  
}
```

}
Q3)

package DAY03;

```
public class PaperQuestion3 {  
  
    public static void main(String[] args) {  
        //      for(int i=3;i>=1;i--)  
        //          {          ***  
        //              for(int j=i;j>=1;j--) **  
        //                  {          *  
    }
```

```
//                                     System.out.print("*");
//                                         }
//                                     System.out.println();
//                                         }
```

//Q1)DIAMOND

```
int n = 3;

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

for (int i = 2; i <= n; i++) {
    for (int s = 1; s < i; s++) {
        System.out.print(" ");
    }
    for (int j = n; j >= i; j--) {
        System.out.print(j);
    }
    for (int j = i + 1; j <= n; j++) {
        System.out.print(j);
    }
}
```

```
    }  
    System.out.println();  
  
}  
}  
}
```