[[[1]]]

```
import java.util.Scanner ;
public class Task7 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                int sum = 0 , count = 0 , number ;
                double average = 0 ;

                System.out.print("Enter number : ");
                do {
                    number = input.nextInt();
                        sum+= number ;
                        count++ ;
                }while(number!=0) ;

                average = (double)sum / (count-1);
                System.out.println("Sum : " +sum+ "\nAverage : " +average);
        }
}
```

[[[2]]]

```
public class Task2 {
        public static void main(String[] args) {

                int currentTuition = 10000 ,totalTuition = 0 ;
                for(int i= 0 ; i<10 ; i++)
                        currentTuition += (currentTuition * 5 /100 ) ;

                System.out.println("Tuition after 10 years : "+currentTuition);

                for (int i=0; i<4; i++) {
                        currentTuition += (currentTuition * 5 /100 ) ;
                        totalTuition += currentTuition;
                }
                System.out.println("TOtal Tuition : "+totalTuition);
        }
}
```

[[[3]]]

```
public class Task3 {
        public static void main (String[] args) {

                System.out.println("Numbers that are divisble by 5 & 6 but not by
both from 100 to 200 are : ");
                int count = 0 ;
                for(int i=100; i<=200; i++) {
                        if ((i % 5== 0) && (i % 6 !=0 ) || (i % 5 != 0) && (i % 6
==0 )) {
                                System.out.print(i +" ");
                                count ++;
```

```
                        if(count % 10 == 0 ) {
                                System.out.print("\n");
                        }
                }
                else
                        continue;
        }
    }
}
[[[4]]]
import java.util.Scanner ;
public class Task4 {
    public static void main(String[] args) {

            Scanner input = new Scanner (System.in) ;
            System.out.print("Enter an integer to get factors : ");
            int number = input.nextInt();

            int index = 2 ;
            while(number/index != 1) {
                    if(number % index == 0) {
                            System.out.print(index+ " ");
                            number /= index ;
                    }
                    else
                            index++;
            }
            System.out.print(number);
    }
}
[[[5]]]
import java.util.Scanner ;
public class Task5 {
    public static void main(String[] args) {

            Scanner input = new Scanner(System.in);
            System.out.print("Enter number of rows : ");
            int rows = input.nextInt();

            for(int r = 1 ; r <= rows ; r++) {
                    for(int space = rows - r ; space >= 1 ; space--) {
                            //creating space
                            System.out.print("  ");
                    }
                            for(int col = r ; col >=2 ; col--) {
                                    System.out.print(col+ " ");
                            }// printing descending order
                            for(int rOW = 1 ; rOW <= r ; rOW++) {
                                    System.out.print(rOW+ " ");
                            }// printing ascending order
```

```
                                System.out.println(); // new line
                        }
        }
}
```

```
import java.util.Scanner ;
public class Main{
    public static void main(String [] args ){
        Scanner input = new Scanner (System.in);
        System.out.println("Enter number of lines : ");
        int lines = input.nextInt();

        for(int i = 1 ; i <= lines ; i++){
            for(int sp = lines - i ; sp >=0 ; sp--){
                System.out.print("  ");
            }
            for(int col = i ; col >= 2 ; col--){
                System.out.print(col+" ");
            }
            for(int row = 1 ; row <= i  ; row++){
                System.out.print(row+" ");
            }System.out.println();
        }
    }
```

[[[6]]]

```
import java.util.Scanner ;
public class Task6 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter rows : ");
                int line = input.nextInt();

                  int number = 0;
                    for (int row = 0; row <= line; row++) {
                        for (int column = 1; column <= line - row; column++) {
                            System.out.printf("    ");
                        }
                        for (int column = 0; column <= row; column++) {
                            number = (int) Math.pow(2, column);
                            System.out.printf("%4d",number);
                        }
                        for (int column = row - 1; column >= 0; column--) {
                            number = (int) Math.pow(2, column);
                            System.out.printf("%4d",number);
                        }
                        System.out.println();
                }
        }
```

```
}
```

```
import java.util.Scanner ;

public class Main {

    public static void main(String []args) {


        Scanner input = new Scanner (System.in) ;

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

        int lines = input.nextInt();


for(int i = 0 ; i <= lines ; i++) {

            for(int sp = lines - i ; sp > 0 ; sp--) {

                System.out.print("     ");

            }

            for(int col = 0 ; col <= i-1  ; col++) {

                System.out.printf("%5d",(int)(Math.pow(2,col)));

            }

           for(int row = i ; row >= 0 ; row--) {

              System.out.printf("%5d",(int)(Math.pow(2,row)));

            }

            System.out.println();

        }

    }

}
[[[7]]]
import java.util.Scanner;
public class Task7 {
        public static void main(String[] args) {
```

```
                Scanner input = new Scanner (System.in);
                System.out.print("Enter the year : ");
                int year = input.nextInt();
                System.out.print("Enter the first day of the year : ");
                int day = input.nextInt();

                int numberOfDays = 0 ;
                for(int month = 1 ; month <= 12 ; month++) {
                        switch(month) {
                                case 1 : numberOfDays = 31 ;
                                System.out.print("1st January " +year+ " is "
+dayName(day));
                                break ;

                                case 2 :if(year % 4 == 0 && year % 100!=0 || year %
400 == 0)
                                                numberOfDays = 29 ;
                                        else
                                           numberOfDays = 28 ;
                                System.out.print("\n1st February " +year+ " is "
+dayName(day));
                                break ;

                                case 3 : numberOfDays = 31 ;
                                System.out.print("\n1st March " +year+ " is "
+dayName(day));
                                break ;

                                case 4 : numberOfDays = 30 ;
                                System.out.print("\n1st April " +year+ " is "
+dayName(day));
                                break ;

                                case 5 : numberOfDays = 31 ;
                                System.out.print("\n1st May " +year+ " is "
+dayName(day));
                                break ;

                                case 6 : numberOfDays = 30 ;
                                System.out.print("\n1st June " +year+ " is "
+dayName(day));
                                break ;

                                case 7 : numberOfDays = 31 ;
                                System.out.print("\n1st July " +year+ " is "
+dayName(day));
                                break ;

                                case 8 : numberOfDays = 31 ;
                                System.out.print("\n1st August " +year+ " is "
```

```
+dayName(day));
                                break ;

                                case 9 : numberOfDays = 30 ;
                                System.out.print("\n1st September " +year+ " is "
+dayName(day));
                                break ;

                                case 10 : numberOfDays = 31 ;
                                System.out.print("\n1st October " +year+ " is "
+dayName(day));
                                break ;

                                case 11 : numberOfDays = 30 ;
                                System.out.print("\n1st November " +year+ " is "
+dayName(day));
                                break ;

                                case 12 : numberOfDays = 31 ;
                                System.out.print("\n1st December " +year+ " is "
+dayName(day));
                                break ;
                        }
                        day = (day + numberOfDays) % 7 ;
                }
        }
public static String dayName (int day) {

        String name = "";
        switch(day) {
        case 0  : name += " Sunday"; break;
        case 1  : name += " Monday"; break;
        case 2  : name += " Tuesday"; break;
        case 3  : name += " Wednesday"; break;
        case 4  : name += " Thursday"; break;
        case 5  : name += " Friday"; break;
        default : name += " Saturday";
        }
        return name ;
  }
}
[[[8]]]
import java.util.Scanner ;
public class Task8 {
        public static void main(String [] args) {

                Scanner input = new Scanner (System.in);

                System.out.print("Enter initial deposit amount : ");
                double amount = input.nextDouble();
```

```
                System.out.print("Enter annual percentage yield : ");
                double rate = input.nextDouble();
                System.out.print("Enter maturity period [months] : ");
                int month = input.nextInt();

                System.out.println("\nMonth CD Value : ");

                for(int i = 1 ; i <= month ; i++) {
                        amount = amount + (amount * rate) / 1200.0;
                        System.out.println(i+ " " +amount);
                }
        }
}
[[[9]]]
import java.util.Scanner ;
public class Task9 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter the first string : ");
                String S1 = input.nextLine();
                System.out.print("Enter the second string : ");
                String S2 = input.nextLine();

                String prefix = "" ;
                for(int i = 0 ; i <S1.length() ; i++) {
                        if(S1.charAt(i) == S2.charAt(i))
                                prefix += S1.charAt(i);
                        else
                                break ;
                }
                if(prefix.length() > 0)
                        System.out.println("The common prefix is : "+prefix);
                else
                        System.out.println("No prefix found");
        }
}
[[[MULTIPLICATION TABLE]]]
public class MultiplicatiuonTable {


     public static void main(String []args) {

        System.out.println("MULTIPLICATION TABLE : \n");


for(int i = 0 ; i <= 10 ; i++) {

            for(i = 1 ; i <= 10 ; i++) {
```

```
                for(int j = 1 ; j <= 10 ; j++) {
                    System.out.println(i+ " * " +j+ " = " + i*j);
                }
      System.out.println();
             }
          }
      }
}
```