

***** OUTPUT *****

```
Maximum profit: 5
Stock bought at: 5
Stock sold at: 10
```

CODE

```
/*
Online Java - IDE, Code Editor, Compiler
```

Online Java is a quick and easy tool that helps you to build, compile, test your programs online.
*/

```
public class Main
{
    public static void main(String[] args) {
        System.out.println("Welcome to Online IDE!! Happy Coding :)");

        int [] stockPrices = new int[]{9,11,8,5,7,10};
        int difference;
        int temp=0;
        int stockBought=0;
        int stockSold=0;
        int length=stockPrices.length;

        for (int i=0; i<stockPrices.length;i++)
        {
            if (i==stockPrices.length-1)
            {
                length=stockPrices.length-1;
            }

            for (int j=0; j<length;j++)
            {

                //System.out.println("Stock price: " + i);

                if (j==i && j!=stockPrices.length-1)
                {
                    j++;
                }

                if (j>i)
                {

                    System.out.println("\nInitial stock price: " + stockPrices[i]);
                    System.out.println("Future stock price: " + stockPrices[j]);
                }
            }
        }
    }
}
```

```
difference=stockPrices[j]-stockPrices[i];
System.out.println("Difference: " + difference);

}

if (difference>temp)
{
    temp=difference;
    stockBought = stockPrices[i];
    stockSold  = stockPrices[j];
}

}

System.out.println("\nMaximum profit: " + temp);
System.out.println("Stock bought at: " + stockBought);
System.out.println("Stock sold at: " + stockSold);

}
}
```