

Practical-4

**Console applications: Object
Oriented Programming, StringBuilder
And CommandLine Argument**

Practical-4 - Console applications: Object Oriented Programming, StringBuilder And CommandLine Argument

1. Write a program to create a Class named ATM having following methods which performs ATM transaction:

Balance_check():- To Check the balance of Current Account

Debit() :- To Withdraw money into Current Account

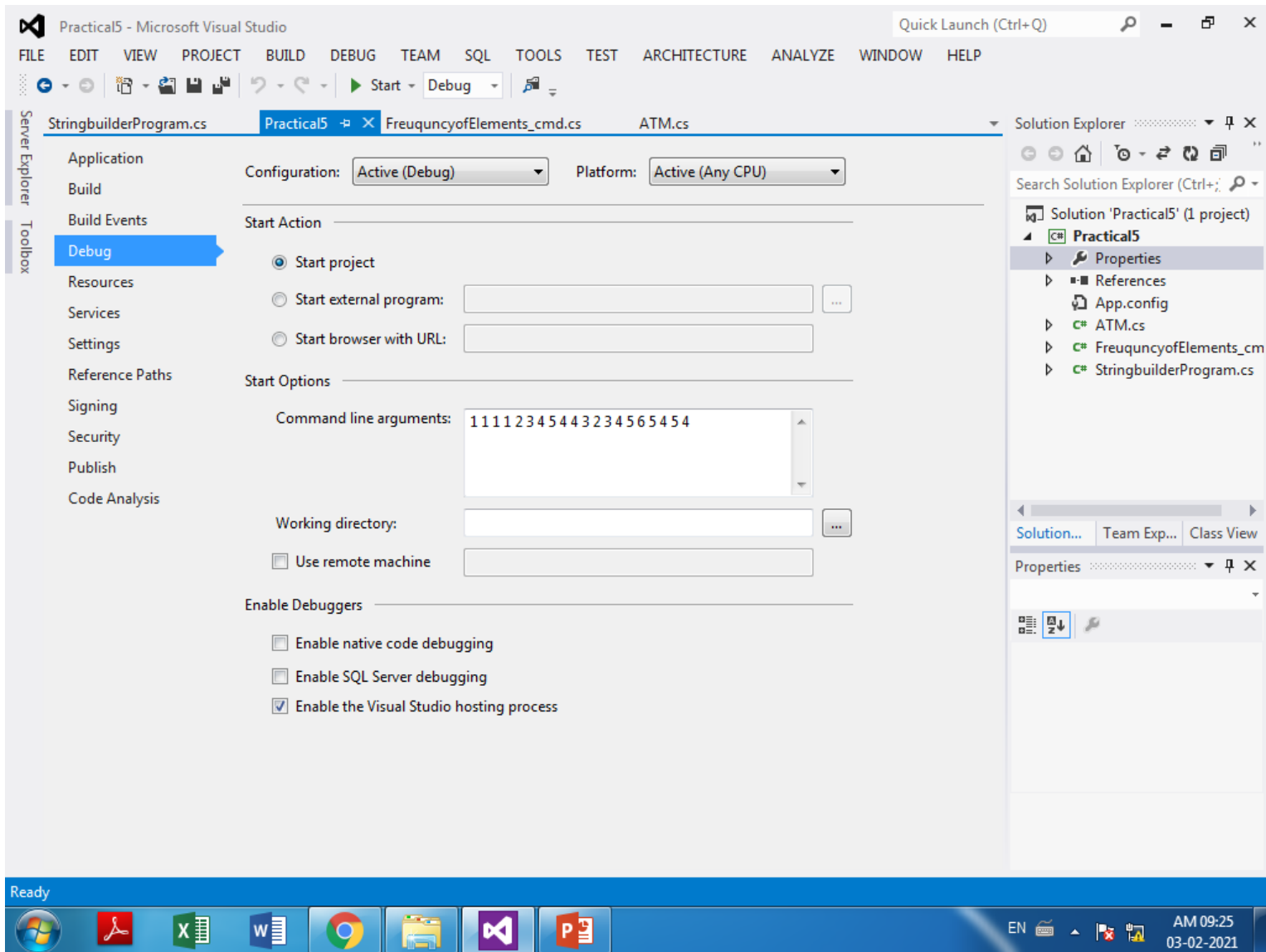
Credit() :- To add money into Current Account

Get_info() :- To see information of Account Holder

2. Write a program to find frequency of each element in an array using command Line Arguments.

3. Write a program to explain StringBuilder Class. [Note: Use Append(), AppendFormat(), Insert(), Remove(), Replace() Methods.]

Command Line Argument



StringBuilder

String

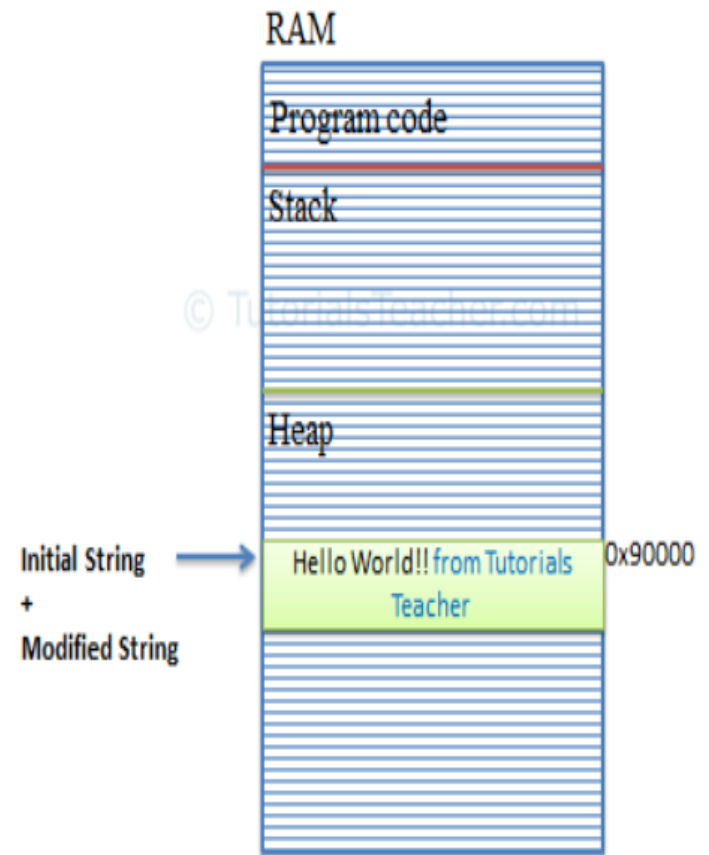
- `string S="Hello World"`
- Now replace string S with "Welcome"
- In heap Hello World and new object of Welcome is created.
- To solve this problem C#, introduced **StringBuilder**.

StringBuilder

- StringBuilder is mutable, means if create string builder object then you can perform any operation like insert, replace or append without creating new instance for every time.
- it will update string at one place in memory doesn't create new space in memory.

StringBuilder

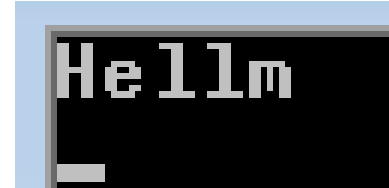
- StringBuilder is mutable, means if create string builder object then you can perform any operation like insert, replace or append without creating new instance for every time.
- It will update string at one place in memory doesn't create new space in memory.
- `StringBuilder sb = new StringBuilder()`



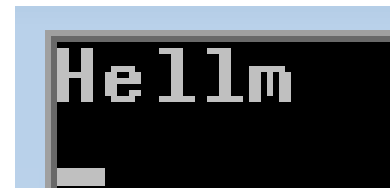
Memory allocation for StringBuilder

String and StringBuilder

```
string a = "Hello";  
a = a.Replace("o", "m");  
Console.WriteLine(a);
```

A terminal window with a black background and a light blue border. It displays the text 'Hellm' in a white, monospaced font. A white cursor is visible at the end of the line.

```
string a = "Hello";  
StringBuilder sb = new StringBuilder(a);  
a = sb.Replace("o", "m");  
Console.WriteLine(a);
```

A terminal window with a black background and a light blue border. It displays the text 'Hellm' in a white, monospaced font. A white cursor is visible at the end of the line.