**

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Exercise - Methods

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| **Ex-1** | Write a Java method to find the smallest number among three numbers. |
| **Input** | Input the first number: 25 Input the Second number: 37 Input the third number: 29 |
| **Expected Output** | The smallest value is 25 |
| **Comments** |  |

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| **Ex-2** | Write a Java method to display the middle character of a string. |
| **Input** | Softech |
| **Expected Output** | t |
| **Comments** | a) If the length of the string is odd there will be two middle characters. b) If the length of the string is even there will be one middle character. |

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| **Ex-3** | Write a Java method to count all vowels in a string. |
| **Input** | Softech |
| **Expected Output** | 2 |
| **Comments** |  |

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| **Ex-4** | Write a Java method to compute the future investment value at a given interest rate for a specified number of years. |
| **Input** | Input the investment amount: 1000 Input the rate of interest: 10 Input number of years: 5 |
| **Expected Output** | Years Future Value  1 1104.71  2 1220.39  3 1348.18  4 1489.35  5 1645.31 |
| **Comments** | Monthly compounded |

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| **Ex-5** | Write a Java method to check whether a year (integer) entered by the user is a leap year or not. |
| **Input** | Enter a Year: 2012 |
| **Expected Output** | True |
| **Comments** |  |

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| **Ex-6** | Write a Java method to check whether a string is a valid password. |
| **Input** |  |
| **Expected Output** | 1. A password must have at least eight characters.  2. A password consists of only letters and digits.  3. A password must contain at least two digits    Input a password (You are agreeing to the above Terms and  Conditions.): pass1234    Password is valid: pass1234 |
| **Comments** | Password rules: A password must have at least ten characters. A password consists of only letters and digits. A password must contain at least two digits. |