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| FACULTY: SAS3. |
| CSE427.1 |
| **Group: 5** |
| **Group Members: Name & ID.**   1. **Rakibul Islam-1511040642** 2. **Akif Arshad Chowdhury -151178642.** |
| **Project Title: Currency Converter.** |
| **12/19/2018** |
| **Semester:Spring19** |
| **Git-Hub Link:** <https://github.com/nsuspring2019cse427/Group05> |

Project Description:

  Project is about:

  we have build “Currency converter” desktop application.So,we designed a desktop application to convert one currency into another in order to check its corresponding value. The code is generally a part of a desktop application and it is based on market or bank exchange rate.

In order to convert one currency into another, a user enters an amount of money (e.g. '1000') and chooses the currency he/she wishes to check the monetary value of (e.g. 'United States Dollar'). After that, the user selects one, or sometimes several other currencies, he/she would like to see the result in. The application then calculates and displays the corresponding amount of money.

Aspects of our test:

1. Black Box Testing.

1.1 Unit Testing.

2.White Box Testing.

2.1 Input Space Partitioning

2.2 Graph Coverage.

2.3 UI Testing.

2.4 System Testing

Tools Framework:.

1. Black Box Testing.

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| Task | Frame Work |
| Unit Testing. | .J unit |

1. White Box Testing.

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| Task | Frame Work |
| Input Space Partitioning | J unit |
| Graph Coverage. | Ms Power Point |
| UI Testing. | Sikulix |
| System Testing | Mockito |

Input Space Partitioning:

-For input Space partitioning 1st we test for input 0.

-We test for input Signed 1,2,3,6,8,16 all are for positive integers.

-We test for negative input.

-Test for Input Signed 1,2,3,8,16 Bit to test negative integer

-Test for Some Currency Value.

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| Reference of the code | Description | Class |
| Line [13-68] | Test for Input Signed 1 Bit positive integer | Test\_Case |
| Line [93-164] | Test for Input Signed 2 Bit positive integer | Test\_Case |
| Line [173-251] | Test for Input Signed 3 Bit positive integer | Test\_Case |
| Line [258-332] | Test for Input Signed 6 Bit positive integer | Test\_Case |
| Line [340-416] | Test for Input Signed 8 Bit positive integer | Test\_Case |
| Line [422-496] | Test for Input Signed 16 Bit positive integer | Test\_Case |
| Line [500-527] | Negative input | Test\_Case |
| Line [531-607] | Test for Input Signed 1 Bit negative integer | Test\_Case |
| Line [612-687] | Test for Input Signed 2 Bit negative integer | Test\_Case |
| Line [693-769] | Test for Input Signed 3 Bit negative integer | Test\_Case |
| Line [777-800] | Test for Input Signed 8 Bit negative integer | Test\_Case |
| Line [866-937] | Test for Input Signed 16 Bit negative integer | Test\_Case |
| Line [941-1003] | Test for Some Currency Value | Test\_Case |

Graph Partitioning:

For Graph Partitioning no new value is initialised in the Code.So,Only Variable used in this part.

Class-[Converter]

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| Node | Use |
| 3 | input<0 |
| 5 | input<0 |
| 7 | input<0 |
| 9 | input<0 |
| 11 | input<0 |
| 13 | input<0 |
| 15 | input<0 |
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