

## CS112: Computing Laboratory

### Assignment 4 Evaluation Policy

Total Marks-20

\*Proper indentation is mandatory (3 marks)

\*You should comment the statements wherever necessary in order to make the code understandable (2 marks)

Q1-(5Marks)

- a)Logic - 2.5 Marks
- b)Compilation - 1 Marks
- c)Output correctness - 1.5 Marks

Test Case1-

Input-70

Output-1 50Rs note, 1 20Rs note

Test Case2-

Input-253

Output-2 100Rs note, 1 50Rs note, 1 2Rs note, 1 Rs note

Q2-(5Marks)

- a)Use of switch case-1Marks

- b)Compilation-1Marks
- c)Correct Calculation of roots-2Marks
- d)Printing Message(as mentioned in Test Cases)-1Marks

Test Case1-

Input-

a=2

b=-5

c=2

(i.e.  $2x^2-5x+2=0$ )

Output-

Roots are 2 and 0.5.

Message-Discriminant of the following equation is POSITIVE, therefore two real roots exists.

Test Case2-

Input-

a=1

b=-4

c=4

(i.e.  $x^2-4x+4=0$ )

Output-

Roots are 2 and 2.

Message-Discriminant of the following equation is 0, therefore two real & equal roots exists.

Q3-(5Marks)

- a)Compilation-1 Marks
- b)Logic of computing reverse & sum-2.5 Marks
- c)Output correctness-1.5 Marks

Test Case1-

Input-781

Output-Reverse is 187 and sum is 16

Test Case2-

Input-920

Output-Reverse is 29 and sum is 11