Text

Description automatically generated with low confidence

**ICS2014 : Computer Organization and Architecture**

**Assignment #2: Decimal Conversion**

**GROUP 3**

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**a)Converting Decimal to Binary and Hexadecimal**

The interface for this question looked like this:

Graphical user interface, text, application, email

Description automatically generated

Inputting 10 into the text box will give us the following values:

1. In Binary:

Graphical user interface, text, application

Description automatically generated

1. In Hexadecimal



**b) Converting Floating point Numbers to Binary**

The results after running the code are as follows:

1

Random Number :12.216

0000001100.0011

Remarks : Approximate

2

Random Number :38.228

0000100110.0010

Remarks : Approximate

3

Random Number :40.417

0000101000.0010

Remarks : Approximate

4

Random Number :20.872

0000010100.1101

Remarks : Approximate

5

Random Number :8.004

0000001000.0000

Remarks : Approximate

6

Random Number :4.166

0000000100.0010

Remarks : Approximate

7

Random Number :48.992

0000110000.1101

Remarks : Approximate

8

Random Number :22.183

0000010110.0010

Remarks : Approximate

9

Random Number :30.566

0000011110.0001

Remarks : Approximate

10

Random Number :37.317

0000100101.0101

Remarks : Approximate

11

Random Number :16.95

0000010000.0111

Remarks : Approximate

12

Random Number :20.984

0000010100.1011

Remarks : Approximate

13

Random Number :30.82

0000011110.0101

Remarks : Approximate

14

Random Number :44.36

0000101100.0101

Remarks : Approximate

15

Random Number :21.892

0000010101.1100

Remarks : Approximate

16

Random Number :11.506

0000001011.1000

Remarks : Approximate

17

Random Number :37.322

0000100101.0100

Remarks : Approximate

18

Random Number :35.508

0000100011.1000

Remarks : Approximate

19

Random Number :38.887

0000100110.1110

Remarks : Approximate

20

Random Number :9.525

0000001001.1000

Remarks : Approximate

21

Random Number :28.593

0000011100.1001

Remarks : Approximate

22

Random Number :25.177

0000011001.0010

Remarks : Approximate

23

Random Number :4.612

0000000100.1001

Remarks : Approximate

24

Random Number :34.562

0000100010.1000

Remarks : Approximate

25

Random Number :16.612

0000010000.1001

Remarks : Approximate

26

Random Number :32.296

0000100000.0100

Remarks : Approximate

27

Random Number :13.916

0000001101.1010

Remarks : Approximate

28

Random Number :31.086

0000011111.0000

Remarks : Approximate

29

Random Number :26.703

0000011010.0011

Remarks : Approximate

30

Random Number :47.788

0000101111.1000

Remarks : Approximate

BUILD SUCCESSFUL (total time: 0 seconds)