

Hex Game

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E:\GMU DFCA\CFRS 772\Projects\Homework 3\Project>python project.py
Please enter your username: NewMe
Hello NewMe, welcome to the game.
Your current score is 0.
Math Game (1), Binary Game (2), or Hex Game (3)?: 3
How many questions do you want per game (1 to 10)?: 2
    In this game, you will be given a number in base 10.
    Your task is to convert this number to base 16.
    Each correct answer gives you one mark.
    No mark is deducted for wrong answers.
Please convert 6 to hex: 0x6
Correct Answer!
Please convert 34 to hex: 0x22
Correct Answer!
Your current score is 2.
Press Enter to continue or -1 to end:
```

Binary Game

```
Press Enter to continue or -1 to end:
Math Game (1), Binary Game (2), or Hex Game (3)?: 2
How many questions do you want per game (1 to 10)?: 2
    In this game, you will be given a number in base 10.
    Your task is to convert this number to base 2.
    Each correct answer gives you one mark.
    No mark is deducted for wrong answers.
Please convert 48 to binary: 110000
Correct Answer!
Please convert 74 to binary: 1001010
Correct Answer!
Your current score is 4.
```

Math Game

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Press Enter to continue or -1 to end:

Math Game (1), Binary Game (2), or Hex Game (3)?: 1

How many questions do you want per game (1 to 10)?: 2
In this game, you will be given a simple arithmetic question.
Each correct answer gives you one mark.
No mark is deducted for wrong answers.

Please evaluate  $6 - 4^4 - 1 + 5$ : 10
Wrong answer. The correct answer is -246.

Please evaluate  $1*9*8 + 2*5$ : 82
Correct Answer!

Your current score is 5.

Press Enter to continue or -1 to end: -1
```

User Scores File

```
E:\GMU DFCA\CFRS 772\Projects\Homework 3\Project>type userScores.txt
Gully, 4
rgully, 2
NewMe, 5
```

Error Cases

```
E:\GMU DFCA\CFRS 772\Projects\Homework 3\Project>python project.py

Please enter your username: Gully

Hello Gully, welcome to the game.
Your current score is 4.

Math Game (1), Binary Game (2), or Hex Game (3)?: 4
You did not enter a valid choice. Please try again.

Math Game (1), Binary Game (2), or Hex Game (3)?:
```

```
How many questions do you want per game (1 to 10)?: a
You did not enter a valid number. Please try again.

How many questions do you want per game (1 to 10)?: 1

    In this game, you will be given a number in base 10.
    Your task is to convert this number to base 16.
    Each correct answer gives you one mark.
    No mark is deducted for wrong answers.

Please convert 13 to hex: asdf
You did not enter a hex number. Please try again.

Please convert 13 to hex:
```

```
Please convert 40 to binary: asdf
You did not enter a binary number. Please try again.

Please convert 40 to binary: 101000
Correct Answer!

Your current score is 6.

Press Enter to continue or -1 to end:
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```
Please evaluate  $1 - 4 \cdot 7^6 - 3$ : asdf
You did not enter a valid number. Please try again.

Please evaluate  $1 - 4 \cdot 7^6 - 3$ : -26
Wrong answer. The correct answer is -470598.

Your current score is 6.
```