```python
import numpy as np
import pandas as pd
import math
from sklearn.linear_model import LinearRegression
```

```python
# Load the dataset
data = pd.read_csv('test_scores.csv')
```

```python
# Extract the features and target variable
X = data['math'].values
y = data['cs'].values
```

```python
# Initialize parameters
m = 0
b = 0
learning_rate = 0.0001
num_iterations = 1000
```

```python
# Gradient descent function with cost comparison
def gradient_descent(X, y, m, b, learning_rate):
    n = len(y)
    prev_cost = float('inf')
    iteration = 0
    while True:
        y_pred = m * X + b
        cost = (1/n) * sum((y - y_pred) ** 2)
        md = -(2/n) * sum(X * (y - y_pred))
        bd = -(2/n) * sum(y - y_pred)
        m -= learning_rate * md
        b -= learning_rate * bd

        if math.isclose(prev_cost, cost, rel_tol=1e-20):
            print(f"Stopping at iteration {iteration}: Cost {cost}, m {m}, b {b}")
            break

        prev_cost = cost
        iteration += 1
        if iteration % 100 == 0:
            print(f"Iteration {iteration}: Cost {cost}, m {m}, b {b}")

    return m, b
```

```python
# Run gradient descent
m, b = gradient_descent(X, y, m, b, learning_rate)

print(f"Optimized m: {m}")
print(f"Optimized b: {b}")
```

```
Iteration 100: Cost 31.81138094480272, m 1.0445228751752675, b
0.01691985520723526
Iteration 200: Cost 31.810906559127137, m 1.0444921444888104, b
0.01909765918798132
Iteration 300: Cost 31.810433261295096, m 1.0444614490578081, b
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Iteration 400: Cost 31.809961048811985, m 1.044430788841815, b
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Iteration 500: Cost 31.809489919188934, m 1.04440016380043, b
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Iteration 600: Cost 31.809019869942716, m 1.0443695738933003, b
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Iteration 700: Cost 31.808550898595946, m 1.044339019080118, b
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Iteration 800: Cost 31.808083002676767, m 1.0443084993206222, b
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Iteration 900: Cost 31.807616179719027, m 1.0442780145745978, b
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Iteration 1000: Cost 31.8071504272623, m 1.0442475648018756, b
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Iteration 1100: Cost 31.806685742851712, m 1.0442171499623336, b
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Iteration 1200: Cost 31.80622212403812, m 1.0441867700158947, b
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Iteration 1300: Cost 31.80575956837784, m 1.0441564249225281, b
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Iteration 1400: Cost 31.80529807343301, m 1.044126114642249, b
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Iteration 1500: Cost 31.804837636771126, m 1.0440958391351185, b
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Iteration 1600: Cost 31.804378255965446, m 1.0440655983612435, b
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Iteration 1700: Cost 31.803919928594674, m 1.0440353922807764, b
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Iteration 1800: Cost 31.803462652243134, m 1.044005220853916, b
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Iteration 1900: Cost 31.80300642450065, m 1.0439750840409059, b
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Iteration 2000: Cost 31.802551242962632, m 1.0439449818020359, b
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Iteration 2100: Cost 31.802097105229933, m 1.0439149140976414, b
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Iteration 2200: Cost 31.801644008908937, m 1.0438848808881027, b
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Iteration 2300: Cost 31.801191951611543, m 1.043854882133846, b
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Iteration 2400: Cost 31.80074093095506, m 1.0438249177953431, b
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Iteration 2500: Cost 31.800290944562313, m 1.0437949878331108, b 0.06850334174897342
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Iteration 2800: Cost 31.798947167276403, m 1.043705403809885, b 0.07485192893930552
Iteration 2900: Cost 31.798501294275635, m 1.0436756109588088, b 0.0769632709609591
Iteration 3000: Cost 31.79805644373417, m 1.0436458522872663, b 0.07907219076780084
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Iteration 3400: Cost 31.796287219348944, m 1.0435271586128616, b 0.087483703376458
Iteration 3500: Cost 31.795847446041563, m 1.0434975702517033, b 0.08958055372844013
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Iteration 3700: Cost 31.794970922529327, m 1.0434384953252474, b 0.09376704042400044
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Iteration 3900: Cost 31.794098414429882, m 1.0433795558672088, b 0.09794392682444157
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Iteration 4600: Cost 31.791075992640657, m 1.0431743300992609, b 0.11248774428881719
Iteration 4700: Cost 31.790648169523912, m 1.0431451465168844, b 0.1145559090192221
Iteration 4800: Cost 31.79022132747523, m 1.0431159964150643, b 0.116621701069506

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Iteration 5300: Cost 31.7881017546909, m 1.0429707467714924, b 0.12691516628101474
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Iteration 396400: Cost 31.60453447449283, m 1.0180195469830908, b
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Iteration 396500: Cost 31.604534421426827, m 1.018019221959691, b
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Iteration 396600: Cost 31.604534368482533, m 1.018018897309171, b
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Iteration 396800: Cost 31.60453426295788, m 1.0180182491250596, b
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Iteration 396900: Cost 31.60453421037697, m 1.0180179255906137, b
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Iteration 397000: Cost 31.604534157916646, m 1.0180176024273393, b
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Iteration 397100: Cost 31.604534105576587, m 1.0180172796348108, b
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Iteration 397200: Cost 31.604534053356595, m 1.0180169572126025, b
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Iteration 397300: Cost 31.604534001256326, m 1.0180166351602897, b
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Iteration 397400: Cost 31.604533949275545, m 1.0180163134774478, b
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Iteration 397500: Cost 31.60453389741395, m 1.0180159921636533, b
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Iteration 397600: Cost 31.60453384567129, m 1.0180156712184827, b
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Iteration 397700: Cost 31.604533794047274, m 1.018015350641513, b
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Iteration 397800: Cost 31.604533742541676, m 1.018015030432322, b
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Iteration 397900: Cost 31.604533691154174, m 1.0180147105904875, b
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Iteration 398100: Cost 31.604533588732398, m 1.0180140720072028, b
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Iteration 398200: Cost 31.604533537697563, m 1.0180137532649114, b
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Iteration 398300: Cost 31.604533486779804, m 1.0180134348882937, b
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Iteration 398400: Cost 31.604533435978812, m 1.0180131168769302, b
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Iteration 398700: Cost 31.604533284273685, m 1.018012165030177, b
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Iteration 398800: Cost 31.604533233937055, m 1.0180118484756449, b
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Iteration 398900: Cost 31.604533183715866, m 1.0180115322842764, b
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Iteration 399100: Cost 31.604533083618698, m 1.018010900989365, b
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Iteration 399400: Cost 31.604532934332088, m 1.0180099567603267, b
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Iteration 399500: Cost 31.604532884797926, m 1.0180096427392087, b
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Iteration 399600: Cost 31.60453283537736, m 1.018009329078348, b
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Iteration 399700: Cost 31.604532786070134, m 1.0180090157773314, b
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Iteration 399800: Cost 31.604532736875964, m 1.0180087028357463, b
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Iteration 400000: Cost 31.604532638825802, m 1.0180080780292209, b
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Iteration 400100: Cost 31.604532589969313, m 1.0180077661634572, b
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Iteration 400200: Cost 31.60453254122483, m 1.0180074546554783, b
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Iteration 400400: Cost 31.60453244407096, m 1.0180068327112333, b
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Iteration 400500: Cost 31.604532395661057, m 1.0180065222741477, b
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Iteration 400600: Cost 31.604532347362152, m 1.0180062121932076, b
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Iteration 400700: Cost 31.60453229917402, m 1.0180059024680046, b
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Iteration 400800: Cost 31.6045322510964, m 1.0180055930981307, b
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Iteration 401100: Cost 31.604532107523983, m 1.0180046671164085, b 1.8961964263069584

Iteration 401200: Cost 31.604532059885816, m 1.0180043591637784, b 1.8962182501104794

Iteration 401300: Cost 31.60453201235692, m 1.018004051564444, b 1.896240048876872

Iteration 401400: Cost 31.604531964937003, m 1.0180037443179994, b 1.8962618226348624

Iteration 401500: Cost 31.60453191762582, m 1.0180034374240403, b 1.8962835714131379

Iteration 401600: Cost 31.60453187042315, m 1.018003130882162, b 1.8963052952403578

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Iteration 401800: Cost 31.604531776342277, m 1.0180025188530326, b 1.8963486681560973

Iteration 401900: Cost 31.604531729463556, m 1.018002213364975, b 1.8963703173017668

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Iteration 402100: Cost 31.60453163602843, m 1.018001603439862, b 1.896413541111339

Iteration 402200: Cost 31.60453158947148, m 1.0180012990020026, b 1.896435115832197

Iteration 402300: Cost 31.604531543021313, m 1.0180009949134063, b 1.8964566658016835

Iteration 402400: Cost 31.60453149667766, m 1.0180006911736723, b 1.8964781910481956

Iteration 402500: Cost 31.604531450440277, m 1.0180003877824007, b 1.8964996916000971

Iteration 402600: Cost 31.604531404308943, m 1.0180000847391917, b 1.8965211674857176

Iteration 402700: Cost 31.604531358283385, m 1.0179997820436455, b 1.8965426187333554

Iteration 402800: Cost 31.604531312363356, m 1.0179994796953635, b 1.896564045371275

Iteration 402900: Cost 31.60453126654864, m 1.0179991776939474, b 1.896585447427712

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Iteration 403200: Cost 31.604531129733886, m 1.017998273766918, b 1.896649506389967

Iteration 403300: Cost 31.60453108433799, m 1.0179979731489905, b 1.8966708104021537
Iteration 403400: Cost 31.604531039046165, m 1.017997672875944, b 1.8966920899735369
Iteration 403500: Cost 31.604530993858216, m 1.0179973729473824, b 1.8967133451321567
Iteration 403600: Cost 31.604530948773863, m 1.017997073362911, b 1.8967345759060217
Iteration 403700: Cost 31.60453090379292, m 1.0179967741221343, b 1.8967557823231056
Iteration 403800: Cost 31.60453085891514, m 1.0179964752246586, b 1.8967769644113504
Iteration 403900: Cost 31.604530814140247, m 1.0179961766700898, b 1.8967981221986694
Iteration 404000: Cost 31.604530769468017, m 1.0179958784580347, b 1.89681925571294
Iteration 404100: Cost 31.604530724898286, m 1.0179955805881002, b 1.896840364982009
Iteration 404200: Cost 31.60453068043072, m 1.0179952830598937, b 1.8968614500336933
Iteration 404300: Cost 31.604530636065114, m 1.0179949858730235, b 1.8968825108957756
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Iteration 413800: Cost 31.60452685362775, m 1.0179682534002075, b 1.8987769718540493

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Iteration 783300: Cost 31.604511336741666, m 1.0177395756880117, b 1.9149827677324305
Iteration 783400: Cost 31.60451133673433, m 1.01773957185872, b 1.9149830391043734
Iteration 783500: Cost 31.604511336726972, m 1.017739568033822, b 1.9149833101649874
Iteration 783600: Cost 31.604511336719625, m 1.0177395642133116, b 1.9149835809146296
Iteration 783700: Cost 31.604511336712324, m 1.0177395603971844, b 1.9149838513536572
Iteration 783800: Cost 31.60451133670501, m 1.0177395565854355, b 1.914984121482427
Iteration 783900: Cost 31.60451133669774, m 1.017739552778059, b 1.9149843913012952
Iteration 784000: Cost 31.604511336690493, m 1.017739548975051, b 1.9149846608106156
Iteration 784100: Cost 31.604511336668323, m 1.0177395451764057, b 1.9149849300107442
Iteration 784200: Cost 31.604511336675998, m 1.0177395413821184, b 1.9149851989020348
Iteration 784300: Cost 31.604511336668782, m 1.017739537592184, b 1.9149854674848437
Iteration 784400: Cost 31.60451133666157, m 1.0177395338065978, b 1.914985735759524
Iteration 784500: Cost 31.604511336654397, m 1.0177395300253544, b 1.9149860037264284
Iteration 784600: Cost 31.604511336647228, m 1.0177395262484488, b 1.9149862713859116
Iteration 784700: Cost 31.604511336640094, m 1.0177395224758765, b 1.914986538738325
Iteration 784800: Cost 31.604511336632967, m 1.0177395187076321, b 1.9149868057840205

Iteration 784900: Cost 31.604511336625826, m 1.0177395149437107, b
1.9149870725233515
Iteration 785000: Cost 31.604511336618756, m 1.0177395111841077, b
1.9149873389566683
Iteration 785100: Cost 31.604511336611644, m 1.0177395074288176, b
1.9149876050843222
Iteration 785200: Cost 31.604511336604574, m 1.0177395036778358, b
1.9149878709066646
Iteration 785300: Cost 31.604511336597536, m 1.0177394999311573, b
1.9149881364240449
Iteration 785400: Cost 31.604511336590505, m 1.0177394961887771, b
1.9149884016368133
Iteration 785500: Cost 31.604511336583467, m 1.0177394924506904, b
1.9149886665453209
Iteration 785600: Cost 31.604511336576493, m 1.0177394887168922, b
1.9149889311499129
Iteration 785700: Cost 31.604511336569484, m 1.0177394849873775, b
1.91498919545094
Iteration 785800: Cost 31.60451133656252, m 1.0177394812621414, b
1.91498945944875
Iteration 785900: Cost 31.604511336555568, m 1.017739477541179, b
1.9149897231436925
Iteration 786000: Cost 31.604511336548626, m 1.0177394738244856, b
1.9149899865361137
Iteration 786100: Cost 31.60451133654171, m 1.017739470112056, b
1.914990249626362
Iteration 786200: Cost 31.604511336534785, m 1.0177394664038855, b
1.9149905124147808
Iteration 786300: Cost 31.604511336527892, m 1.017739462699969, b
1.914990774901718
Iteration 786400: Cost 31.604511336521025, m 1.017739459000302, b
1.91499103708752
Iteration 786500: Cost 31.604511336514168, m 1.0177394553048793, b
1.9149912989725328
Iteration 786600: Cost 31.60451133650732, m 1.0177394516136962, b
1.9149915605571006
Iteration 786700: Cost 31.604511336500487, m 1.0177394479267476, b
1.9149918218415678
Iteration 786800: Cost 31.604511336493683, m 1.017739444244029, b
1.914992082826279
Iteration 786900: Cost 31.60451133648689, m 1.0177394405655353, b
1.9149923435115788
Iteration 787000: Cost 31.604511336480098, m 1.0177394368912618, b
1.9149926038978098
Iteration 787100: Cost 31.60451133647335, m 1.0177394332212035, b
1.914992863985316
Iteration 787200: Cost 31.604511336466587, m 1.0177394295553557, b
1.9149931237744395

Iteration 787300: Cost 31.60451133645985, m 1.0177394258937134, b 1.9149933832655224
Iteration 787400: Cost 31.60451133645312, m 1.017739422236272, b 1.9149936424589087
Iteration 787500: Cost 31.604511336446418, m 1.0177394185830264, b 1.9149939013549362
Iteration 787600: Cost 31.60451133643972, m 1.017739414933972, b 1.9149941599539484
Iteration 787700: Cost 31.60451133643307, m 1.017739411289104, b 1.9149944182562848
Iteration 787800: Cost 31.60451133642642, m 1.0177394076484174, b 1.9149946762622874
Iteration 787900: Cost 31.604511336419762, m 1.0177394040119077, b 1.9149949339722956
Iteration 788000: Cost 31.604511336413125, m 1.0177394003795, b 1.9149951913866483
Iteration 788100: Cost 31.604511336406514, m 1.0177393967513992, b 1.914995448505685
Iteration 788200: Cost 31.60451133639992, m 1.0177393931273908, b 1.9149957053297455
Iteration 788300: Cost 31.604511336393344, m 1.0177393895075402, b 1.9149959618591663
Iteration 788400: Cost 31.604511336386782, m 1.0177393858918424, b 1.9149962180942874
Iteration 788500: Cost 31.604511336380227, m 1.0177393822802927, b 1.9149964740354442
Iteration 788600: Cost 31.604511336373697, m 1.017739378672886, b 1.9149967296829757
Iteration 788700: Cost 31.60451133636718, m 1.0177393750696182, b 1.9149969850372166
Iteration 788800: Cost 31.604511336360652, m 1.017739371470484, b 1.914997240098507
Iteration 788900: Cost 31.604511336354154, m 1.0177393678754794, b 1.9149974948671806
Iteration 789000: Cost 31.60451133634769, m 1.0177393642845984, b 1.9149977493435735
Iteration 789100: Cost 31.604511336341222, m 1.0177393606978373, b 1.914998003528022
Iteration 789200: Cost 31.60451133633478, m 1.0177393571151911, b 1.9149982574208595
Iteration 789300: Cost 31.604511336328336, m 1.0177393535366552, b 1.9149985110224215
Iteration 789400: Cost 31.60451133632192, m 1.0177393499622245, b 1.9149987643330397
Iteration 789500: Cost 31.604511336315525, m 1.0177393463918947, b 1.9149990173530516
Iteration 789600: Cost 31.604511336309116, m 1.017739342825661, b 1.9149992700827887

Iteration 789700: Cost 31.604511336302757, m 1.0177393392635181, b
1.914999522522584
Iteration 789800: Cost 31.604511336296408, m 1.0177393357054623, b
1.9149997746727712
Iteration 789900: Cost 31.60451133629007, m 1.017739321514883, b
1.915000026533682
Iteration 790000: Cost 31.604511336283714, m 1.0177393286015917, b
1.9150002781056488
Iteration 790100: Cost 31.60451133627741, m 1.0177393250557676, b
1.915000529389002
Iteration 790200: Cost 31.604511336271116, m 1.0177393215140111, b
1.9150007803840723
Iteration 790300: Cost 31.60451133626483, m 1.0177393179763181, b
1.9150010310911911
Iteration 790400: Cost 31.60451133625855, m 1.017739314426838, b
1.9150012815106887
Iteration 790500: Cost 31.604511336252287, m 1.0177393109131034, b
1.915001531642895
Iteration 790600: Cost 31.604511336246055, m 1.0177393073875722, b
1.9150017814881397
Iteration 790700: Cost 31.60451133623983, m 1.0177393038660856, b
1.915002031046755
Iteration 790800: Cost 31.604511336233614, m 1.017739300348639, b
1.9150022803190643
Iteration 790900: Cost 31.604511336227418, m 1.0177392968352277, b
1.9150025293053987
Iteration 791000: Cost 31.604511336221204, m 1.0177392933258473, b
1.9150027780060859
Iteration 791100: Cost 31.60451133621504, m 1.0177392898204929, b
1.9150030264214535
Iteration 791200: Cost 31.604511336208898, m 1.0177392863191599, b
1.915003274551829
Iteration 791300: Cost 31.604511336202734, m 1.017739282821844, b
1.91500352239754
Iteration 791400: Cost 31.604511336196612, m 1.01773927932854, b
1.9150037699589115
Iteration 791500: Cost 31.60451133619051, m 1.0177392758392438, b
1.9150040172362714
Iteration 791600: Cost 31.6045113361844, m 1.017739272353951, b
1.9150042642299456
Iteration 791700: Cost 31.604511336178305, m 1.0177392688726563, b
1.9150045109402587
Iteration 791800: Cost 31.604511336172234, m 1.0177392653953556, b
1.9150047573675357
Iteration 791900: Cost 31.60451133616617, m 1.017739261922044, b
1.9150050035121025
Iteration 792000: Cost 31.604511336160137, m 1.0177392584527172, b
1.9150052493742822

```
Iteration 792100: Cost 31.604511336154104, m 1.0177392549873707, b
1.9150054949544004
Iteration 792200: Cost 31.604511336148093, m 1.0177392515259998, b
1.9150057402527783
Iteration 792300: Cost 31.60451133614206, m 1.0177392480685998, b
1.9150059852697394
Iteration 792400: Cost 31.604511336136074, m 1.0177392446151663, b
1.9150062300056079
Iteration 792500: Cost 31.604511336130102, m 1.0177392411656947, b
1.9150064744607065
Iteration 792600: Cost 31.604511336124144, m 1.0177392377201804, b
1.9150067186353563
Iteration 792700: Cost 31.604511336118186, m 1.0177392342786191, b
1.9150069625298791
Iteration 792800: Cost 31.604511336112264, m 1.0177392308410058, b
1.9150072061445975
Iteration 792900: Cost 31.604511336106327, m 1.0177392274073367, b
1.9150074494798304
Iteration 793000: Cost 31.604511336100433, m 1.0177392239776064, b
1.9150076925358992
Iteration 793100: Cost 31.60451133609454, m 1.017739220551811, b
1.915007935313124
Iteration 793200: Cost 31.60451133608864, m 1.017739217129946, b
1.9150081778118253
Iteration 793300: Cost 31.604511336082762, m 1.0177392137120065, b
1.9150084200323232
Iteration 793400: Cost 31.604511336076918, m 1.017739210297988, b
1.9150086619749371
Iteration 793500: Cost 31.604511336071084, m 1.0177392068878865, b
1.9150089036399844
Iteration 793600: Cost 31.604511336065272, m 1.0177392034816972, b
1.9150091450277842
Stopping at iteration 793646: Cost 31.604511336062526, m
1.0177392018821385, b 1.9150092583843652
Optimized m: 1.0177392018821385
Optimized b: 1.9150092583843652
```

by sklearn

```
# Extract the features and target variable
X = data['math'].values.reshape(-1, 1)
y = data['cs'].values
```

```
model = LinearRegression()
model.fit(X, y)
```

```
LinearRegression
LinearRegression()
```

```
m_sklearn = model.coef_[0]
b_sklearn = model.intercept_
```

```
print(f"Sklearn coefficient (m): {m_sklearn}")
print(f"Sklearn intercept (b): {b_sklearn}")
Sklearn coefficient (m): 1.0177362378569326
Sklearn intercept (b): 1.9152193111569176
```

```
m_sklearn = model.coef_[0]
b_sklearn = model.intercept_

print(f"Sklearn coefficient (m): {m_sklearn}")
print(f"Sklearn intercept (b): {b_sklearn}")
Sklearn coefficient (m): 1.0177362378569326
```