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CS2520-01
Project 3
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#Lab10 bike.py
class Bike:
    def __init__(sf, gr, sp):
        sf.gr = gr
        sf.sp = sp
    def applyBrake(sf, decrement):
        sf.sp -= decrement
    def spUp(sf, increment):
        sf.sp += increment
    def __str__(sf):
        return f"No. of grs are {sf.gr}\n" \
               f"speed of Bike is {sf.sp}"
class MtnBike(Bike):
    def __init__(sf, gr, sp, startHeight):
        super().__init__(gr, sp)
        sf.seatHeight = startHeight
    def setHeight(sf, newValue):
        sf.seatHeight = newValue
    def str (sf):
        return f"{super().__str__()}\nseat height is {sf.seatHeight}"
def main():
    mb = MtnBike(3, 100, 25)
    print(mb)
main()
.....
No. of grs are 3
speed of Bike is 100
seat height is 25
#Lab10_Fraction.py
class Fraction:
  def __init__(sf, n=0, d=1):
    sf.num = n
    sf.den = d
  def __add__(sf, f):
    return Fraction(sf.num * f.den + sf.den * f.num, sf.den * f.den)
  def __mul__(sf, f):
    return Fraction(sf.num * f.num, sf.den * f.den)
  def __eq__(sf, f):
    return sf.num * f.den == sf.den * f.num
  def str (sf):
    return str(sf.num) + "/" + str(sf.den)
f1 = Fraction(3, 7)
f2 = Fraction(2, 5)
f3 = Fraction(1, 3)
f4 = Fraction(2, 6)
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result = f1 + f2 * f3
print(result)
if f1 == f3:
   print("f1 = f3")
else:
   print("f1 != f3")
if f3 == f4:
   print("f3 = f4")
else:
   print("f3 != f4")
"""
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f1 != f3
f3 = f4
"""
```