ASSIGNMENT 03

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         question 1
         lambda x,y: x*y
 In [2]:
          result=(lambda x, y: x*y)(5,6)
          print(result)
         30
         questions 2
 In [7]:
          import math
          def area_of_circle(radius):
              area=math.pi*radius**2
              return area
          #test the function with a radius of 10
          radius =10
          area= area_of_circle(radius)
          print("the area of a circle with radius", radius, "is", area)
          the area of a circle with radius 10 is 314.1592653589793
         question 3
In [36]:
         def calculator (number1, number2, operation):
              if operation == 's' :
              return number1 + number2
          elif operation == 's' :
              return number1 - number2
          elif operation == 'm' :
              return number1 * number2
          elif operation == 'd' :
              return number1 / number2
          else:
              return "invalid operation"
          result = calculator (2, 5, 'd')
          print (result)
            File "C:\Users\chamara\AppData\Local\Temp\ipykernel_1464\120663161.py", line 4
              return number1 + number2
         IndentationError: expected an indented block
```

question 4

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class rectangle:
In [20]:
              def _init_(self, length,width):
                  self.length = length
                  self.width = width
                  def area(self):
                      return self.length*self.width
                  r = rectangle(5,10)
                  print(r.area())
         question 5
         class shape:
In [40]:
              def __init__(self, name, length)
              self.name=name
              self.length=length
```

def area(self): return 0 class square(shape): def__init__(self, name, length): super().__init__(name, length) def area(self): return self.length*self.length def describe(self): print("this is a shape"+self.name) s=square('square',5) print(s.area()) s.describe()

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File "C:\Users\chamara\AppData\Local\Temp\ipykernel 1464\3886992418.py", line 2
   def __init__(self, name, length)
SyntaxError: invalid syntax
```

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In [ ]:
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