bonus task

formula derivation

profit=revenue-cost
revenue=price*attendes
cost=fixedcost+variablecost*attendes
attendes=venue_capacity*predictedenergy/100

assumption are
venue capacity is 800
fixed cost is 5000
variable cost is 8

optimization
here we have created the loop in which we are calculating profit using the formula
and we appending it into our profit array then we are converting it into dataframe
we are using the trained grid search model to find the predicted the energy

recommened price is 190 for v gamma venue
using the visualisation we can uderstand the pattern that as the price increasing the
profit is also increasing