**Algorithm #1 : Predict Clothing Algorithm**

data = {}

def TrainData(temp , wear):

temp = int(input("Enter the temperature: "))

sweater = input("Did you wear a sweater (yes/no)? ")

data[temp] = sweater

return data[temp]

def TestData(temp):

if temp in data:

return data[temp]

else:

closest\_temp = min(data.keys(), key=lambda x: abs(x - temp))

return data[closest\_temp]

if \_\_name\_\_=="\_\_main\_\_":

n = int(input("Enter the number of data points: "))

for i in range(n):

TrainData()

temp = int(input("\nEnter the temperature for prediction: "))

value = TestData(temp)

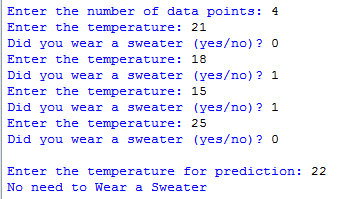
if value == 1:

print("Wear a Sweater")

else:

print("No need to Wear a Sweater")

**Output :**

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