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**SUBJECT :** AI

**CLASS :** TE

**BRANCH :** AI&DS

**EXPERIMENT NO :**

**TITLE :**

**Implement Greedy search algorithm for any of the following application:**

**• Selection Sort**

**• Minimum Spanning Tree**

**• Single-Source Shortest Path Problem**

**• Job Scheduling Problem**

**• Prim's Minimal Spanning Tree Algorithm**

**• Kruskal's Minimal Spanning Tree Algorithm**

**• Dijkstra's Minimal Spanning Tree Algorithm**

**CODE:**

def findMin(V):

# All denominations of Indian Currency

deno = [1, 2, 5, 10, 20, 50, 100, 500, 1000]

n = len(deno)

# Initialize Result

ans = []

# Traverse through all denominations

i = n - 1

while(i >= 0):

# Find denominations

while (V >= deno[i]):

V -= deno[i]

ans.append(deno[i])

i -= 1

# Print result

for i in range(len(ans)):

print(ans[i], end=" ")

# Driver Code

if \_\_name\_\_ == '\_\_main\_\_':

n = int(input("Enter the amount: "))

print("Following is the minimal number of change for", n, ": ", end="")

findMin(n)

**OUTPUT:**

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