### AI LAB MANUAL

## **Exp 3: Constraint Satisfaction Problem**

Name:	SHAMUNESH P
Reg.no:	RA1911030010122
Problem:	Constraint Satisfaction
	Problem
Date:	24-01-22

#### **Constraint Satisfaction Problem:**

Constraint satisfaction problems are mathematical questions defined as a set of objects whose state must satisfy a number of constraints or limitations. CSPs represent the entities in a problem as a homogeneous collection of finite constraints over variables, which is solved by constraint satisfaction methods.

## Code: (Python)

```
def solutions(): 

all\_solutions = list()

for s in range(9, -1, -1):

for e in range(9, -1, -1):

for d in range(9, -1, -1):

for m in range(9, 0, -1):

for o in range(9, -1, -1):

for r in range(9, -1, -1):

for y in range(9, -1, -1):
```

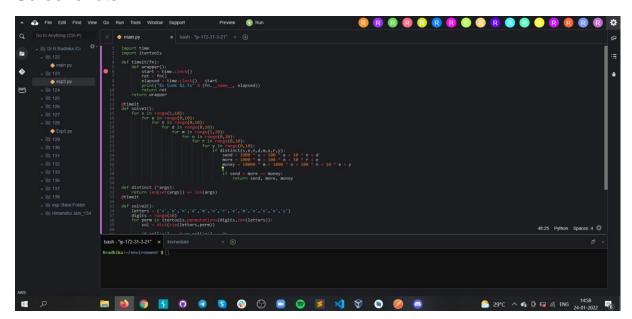
if send + more == money:
 all\_solutions.append((send, more, money))

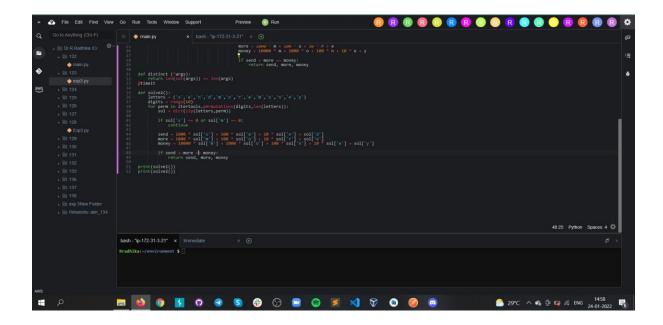
return all\_solutions

print(solutions())

# Implementation:

#### Screenshots





#### Output:

