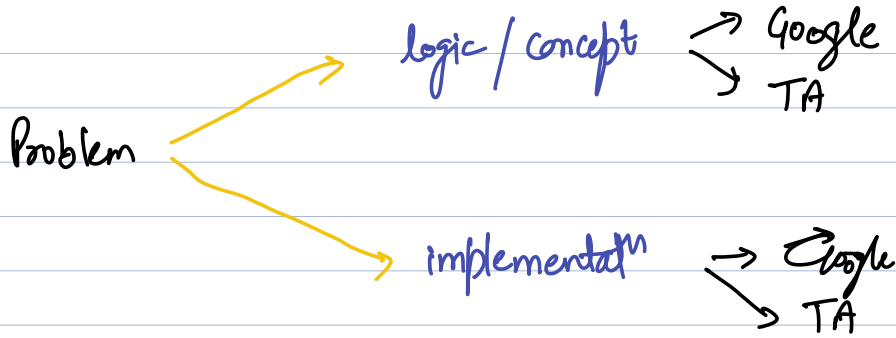
Control Statements : 2



Q.1) Take weather as input & check for multiple weather ?

i) Snowy iii) Sunny
ii) rainy iv) Windy
v) Earthquake

Postpone date

```
weather = input()
if weather == "rainy":
    print("Carry umbrella")
elif weather == "sunny":
    print("Sunglasses")
elif weather == "Snowy":
    print("Take boot/coat")
elif weather == "Earthquake":
    print("Just Pray")
else :
```

print ("Stay at Home")

☆ Arithmatic Operators :

+ , − , * , /

// floor

-/. modulo

5/3 ⇒ 1.666

⇒

$$3\overline{)5}\,1.6$$

3

20

18

2 ...

⇒ 5//3 ⇒ 1

This will always give an int.

ii) Modulo Operator ⇒ %

5 /3 $3\overline{)5}\,,1$

3

2 ⇒ remainder

5 % 3 ⇒ 2

Give me remainder

⇒ 14 % 10

```
10 | 14 | 1
   10
   ---
    4
```

⇒ 142 % 10

```
10 | 142 | 14
   10
   ---
    42
    40
    --
     2   ⇒ Ans
```

⇒ 4 % 10

```
10 | 4 | 0
   --
    4
```

remainder

⇒ 10(0) % 10 ⇒ 0

Q.2) Given a number check if it's even/odd?

i) num %. 2 == 0

even

else :

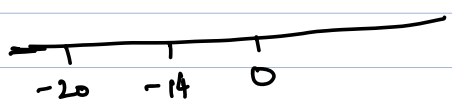
odd.

⇒ 0, 1

-14 %. 10

$$10 \overline{)-14} \; -2$$

$$\begin{array}{r} -20 \\ \hline +6 \end{array}$$



$$10 \overline{)14} \; 1$$

$$\begin{array}{r} 10 \\ \hline 4 \end{array}$$

Q.3) Check if for a given number has last digit as 4 or not?

⇒ 1423 ✗

⇒ 4 ✓

⇒ 1254 ✓✓

⇒ 1254 / 10 ⇒ 1250/10 + 4/10

= 4

⇒ last digit

```
num = int(input())
if num % 10 == 4:
    print(True)
else:
    print(False)
```

☆ Logical operators

True False

a and b ⇒

True and True : True

False and True :

a		b			and	or
1	True	1	True	→	True	True
1	True	0	False	→	False	True
0	False	1	True	→	False	True
0	False	0	False	→	False	False

and

1 x 1 = 1 = True

1 x 0 = 0

or

1 + 1 = 1

1 + 0 = 1

0 + 0 = 0

Q4: Check if a num is even & has last digit as 4.

```
num = int(input())
if (num % 2 == 0) and (num % 10 == 4):
    print(True)
else:
    print(False)
```

★ Logic: