You have been given the following piece of code. Assume that x has already been declared.

```
if x > 5:
    x = x*3
if x > 15:
    x = 0
print(x)
```

○ Output will always be equal to 0

○ For x > 5, the output is thrice the initial value of x

● For x < 5, the output is the initial value of x

○ For x > 5 and x < 15, output is thrice the initial value of x

2.

Knock Knock

Which of the following code snippets from the options given will give the output as below?

```
Knock Knock
Who's There?
No One
```

Options:

A.

```
if True:
    print("Knock Knock")
if False:
    print("Who's There?")
else:
    print("No One")
```

B.

```
if True:
    print("Knock Knock")
if True:
    print("Who's There?")
else:
    print("No One")
```

C.

```
if True:
    print("Knock Knock")
if True:
    print("Who's There?")
if True:
    print("No One")
```

D.

```
if False:
    print("Knock Knock")
if False:
    print("Who's There?")
if False:
    print("No One")
```

- ◉ A
- ○ B
- ◉ C
- ○ D

3.

What should be the input for value of `num` in the code below so that the value of `num` becomes `1` at the end of the execution of the while loop?

```
num = int(input())
while num > 1:
    num = num // 3
print(num)
```

○ 2

◉ 89

○ 72

○ 8

Who's There?

What should be the input for the value of `num` in the code below so that the output of this code is `Hello, this is Raj` ?

```
num = int(input())
val = 0
for i in range(2, num):
    val = val + i
if val > 10:
    print('Hello, this is Raj')
else:
    print('There is no one')
```

○ 5

○ 3

◉ 6

4.

5. Write a function to find the sum of all the prime numbers less than or equal to a given positive integer n. The function should take an integer n as input and return the sum as an integer.

```
def prime(num):

    for i in range(2, num//2+1):
```

```
        if num % i == 0:
            return False

    return True


def sum_of_primes(n):
    # write your code here
    prime_lst = []

    for num in range(2,n+1):
        if prime(num):
            prime_lst.append(num)

    # return prime_lst
    return sum(prime_lst)
```

Sum of Digits (II)

Problem Description

Take **T** (number of test cases) as input.
For each test case, take integer **A** as input and print the sum of digits of that number.

</div>

6.

```
T = int(input())

while T>0:
    A = int(input())
    sum = 0
    while A != 0:
        rem = A%10
        sum += rem
        A = A//10
    print(sum)


    T -= 1
```