

## EXAM WEEK-1

CODE-1

```
def summation(a,b): 1 usage
    print(a, " + ", b, " = ", a+b)

def subtraction(a,b): 1 usage
    print(a, " - ", b, " = ", a-b)

def division(a,b): 1 usage
    try:
        print(a, " / ", b, " = ", a/b)
    except ZeroDivisionError:
        print("ERROR!! Wrong denominator. Denominator must not be equal to zero")

def multiplication(a,b): 1 usage
    print(a, " * ", b, " = ", a*b )

def modulus(a,b): 1 usage
    print(a, " % ", b, " = ", a%b )

print("Select operation: "\n"
      "1.ADD"\n"
      "2.SUBTRACT"\n"
      "3.MULTIPLY"\n"
      "4.DIVIDE"\n"
      "5.MODULUS"\n")

x=int(input())
print("Enter first integer")
a=int(input())
print("Enter second integer")
b=int(input())

if x==1:
    summation(a,b)
elif x==2:
    subtraction(a,b)
elif x==3:
    multiplication(a,b)
elif x==4:
    division(a,b)
else:
    modulus(a,b)
```

## OUTPUT

Select operation:

1.ADD

2.SUBTRACT

3.MULTIPLY

4.DIVIDE

5.MODULUS

4

Enter first integer

4

Enter second integer

0

ERROR!! Wrong denominator. Denominator must not be equal to zero

Process finished with exit code 0

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## CODE-2

```
import random

x=random.randint(a: 1, b: 100)

a=1
e=0
✓ print("Welcome to the Number Guessing Game!" "\n"
      "Try to guess the number between 1 and 100" "\n")
✓ while a==1:
    print("Enter your guess : ")
    e=e+1
    b=int(input())
    if b<1 or b>100:
        print("Guess the number between 1 and 100")
    elif b>x:
        print("Too high")
    elif b<x:
        print("Too low")
    ✓ else:
        print("Congratulations! You've guessed the number in ",e,"attempts")
        break
```

## OUTPUT

```
Welcome to the Number Guessing Game!  
Try to guess the number between 1 and 100  
  
Enter your guess :  
50  
Too low  
Enter your guess :  
75  
Too low  
Enter your guess :  
87  
Too high  
Enter your guess :  
82  
Congratulations! You've guessed the number in 4 attempts  
  
Process finished with exit code 0
```