**Classwork 1**

0)

full\_name = str(input("Enter your first and last name, separated by a space: "))

1)

Expression = (((131-31)/32\*8)\*\*2+(-40))//9  
print(Expression)

2)

Expression = ((32+123)/31)\*\*2\*2.81  
print(Expression)

3)

Float number 3 + 1.5 + 4 = 8.5

4)

#square root  
import math  
result1 = math.pow(25,1/2)  
result2 = 25\*\*(1/2)  
result3 = math.sqrt(25)  
print(result1)  
print(result2)  
print(result3)

In order to find square root of any number we can use functions from math library as sqrt and pow, as well as we can just simply use \*\* arithmetic operator

#square   
import math  
result1 = math.pow(5,2)  
result2 = 5\*\*(2)  
print(result1)  
print(result2)

In order to find square of any number we can use function pow from math library, as well ass can use \*\* arithmetic operator

5)

reminder = 100%7  
print(reminder)

reminder equal to 2

6)

power = 7\*\*3  
print(power)

answer is 343

7)

a = int(input("Enter the first number: "))  
b = int(input("Enter the second number: "))  
sum = a + b  
difference = a - b  
product = a \* b  
print("The sum of two numbers: ", sum)  
print("The difference of two numbers: ", difference)  
print("The product of two numbers: ", product)

8)

#first version  
a = int(input("Enter the first number: "))  
b = int(input("Enter the second number: "))  
intdiv = a - b  
floatdiv = float(a - b)  
print("Integer division is: ", intdiv)  
print("Float division is: ", floatdiv)

#second version  
a = int(input("Enter the first number: "))  
b = int(input("Enter the second number: "))  
div = a - b  
print("Integer division is: ", div)  
print("Float division is: ", float(div))

9)

#first version  
numbers = [4, 8, 15, 16, 23, 42]  
print(\*numbers)

#second version  
numbers = [4, 8, 15, 16, 23, 42]  
print(\*numbers, sep=' ')

10)

numbers = [4, 8, 15, 16, 23, 42]  
print(\*numbers, sep='\n')

11)

triangle = ['\*', '\*\*', '\*\*\*', '\*\*\*\*', '\*\*\*\*\*', '\*\*\*\*\*\*', '\*\*\*\*\*\*\*']  
print(\*triangle, sep='\n')

12)

name = str(input("Enter your name: "))  
print("Hello, " + name)

13)

team = str(input("Enter name of the football team: "))  
print(team + " " + "- champion!")

14)

line1 = input()  
line2 = input()  
line3 = input()  
print(line1, line2, line3, sep='\n')

15)

line1 = input()  
line2 = input()  
line3 = input()  
print(line3, line2, line1, sep='\n')

16)

line = "I like Python"  
print(line.replace(' ', '\*\*\*'))

17)

smth = input()  
line1 = input()  
line2 = input()  
line3 = input()  
print((line1 + line2 + line3).replace(' ', smth))

18)

number = int(input("Enter a number: "))  
print(number)  
print(number+1)  
print(number+2)

19)

number1 = int(input("Enter the first number: "))  
number2 = int(input("Enter the second number: "))  
number3 = int(input("Enter the third number: "))  
print(number1+number2+number3)

20)

number = int(input("Enter a number: "))  
print(number, number\*2, number\*3, number\*4, number\*5, sep="---")

21)

a1 = int(input())  
an = int(input())  
n = int(input())  
arith\_prog = (n \* (a1 + an)) // 2  
print(arith\_prog)

22)

num1 = int(input("first number: "))  
num2 = int(input("second number: "))  
print(num1, "+", num2, "=", num1+num2)  
print(num1, "-", num2, "=", num1-num2)  
print(num1, "\*", num2, "=", num1\*num2)

23)

num = int(input("Enter a number: "))  
print("The next number after",num,"is:",num+1)  
print("For the number",num,"the previous number is:",num-1)

24)

schoolchildren = int(input("Enter the number of schoolchildren: "))  
tangerines = int(input("Enter the number of tangerines: "))  
print("Each student will get", tangerines//schoolchildren, "tangerines.")  
print("the number of tangerines that will remain in the basket: ",tangerines%schoolchildren)

25)

num = int(input("Enter a number: "))  
num1 = num//100  
num2 = num%100//10  
num3 = num%100%10//1  
res1 = num1+num2+num3  
res2 = num1\*num2\*num3  
print("Sum of digits =", res1)  
print("Product of digits =", res2)