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# 1. Write a program to take 3-digit integer as input and print every digit

num = int(input("Enter a 3-digit number: "))

hundreds = num // 100
tens = (num // 10) % 10
ones = num % 10

print("Hundreds digit:", hundreds)
print("Tens digit:", tens)
print("Ones digit:", ones)
```

```
Enter a 3-digit number: 345
Hundreds digit: 3
Tens digit: 4
Ones digit: 5
```

```
# 2. Write a program to print in three lines using one print statement.

print("Line 1\nLine 2\nLine 3")
```

```
Line 1
Line 2
Line 3
```

```
# 3. Write a program to check whether a word is present in sentence or not.

sentence = input("Enter a sentence: ")
word = input("Enter a word to search: ")

if word in sentence:
    print("Word is present")
else:
    print("Word is not present")
```

```
Enter a sentence: Hi how are you
Enter a word to search: Hi
Word is present
```

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# 4. Write a program to print union and intersection of two sets.
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```
set1 = {1, 2, 3, 4}
set2 = {3, 4, 5, 6}

print("Union:", set1 | set2)
print("Intersection:", set1 & set2)
```

```
Union: {1, 2, 3, 4, 5, 6}
Intersection: {3, 4}
```

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# 5. Write a python program to convert list into string.
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```
lst = ['P', 'y', 't', 'h', 'o', 'n']
string = ''.join(lst)
```

```
print("String:", string)
```

String: Python

```
# 6. Write a program to select 5 lucky customers randomly from customers number  
import random  
  
lucky_customers = random.sample(range(1, 101), 5)  
print("Lucky customers:", lucky_customers)
```

Lucky customers: [40, 33, 15, 44, 41]

```
# 7. Write a function to return sum of even numbers and odd numbers between start and end.
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```
def sum_even_odd(start, end):  
    even_sum = 0  
    odd_sum = 0  
  
    for i in range(start, end + 1):  
        if i % 2 == 0:  
            even_sum += i  
        else:  
            odd_sum += i  
  
    return even_sum, odd_sum
```

```
even, odd = sum_even_odd(1, 10)  
print("Sum of even numbers:", even)  
print("Sum of odd numbers:", odd)
```

Sum of even numbers: 30

Sum of odd numbers: 25

```
# 8. Write a function that returns number of digits in a number.
```

```
def count_digits(num):  
    return len(str(num))  
  
number = int(input("Enter a number: "))  
print("Number of digits:", count_digits(number))
```

Enter a number: 34

Number of digits: 2

```
# 9. Write a program to remove duplicates in list.
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```
# Hint: set
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```
lst = [1, 2, 2, 3, 4, 4, 5]  
unique_list = list(set(lst))  
  
print("List after removing duplicates:", unique_list)
```

List after removing duplicates: [1, 2, 3, 4, 5]

```
# 10. Write a program to find number of words in sentence.
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```
sentence = input("Enter a sentence: ")  
words = sentence.split()  
  
print("Number of words:", len(words))
```

```
Enter a sentence: Hello world  
Number of words: 2
```