Example 1

```
# This program prints Hello, world!

print('Hello, world!')
```

```
Hello, world!
```

If-Else

```
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))


if (num1 >= num2) and (num1 >= num3):
   largest = num1
elif (num2 >= num1) and (num2 >= num3):
   largest = num2
else:
   largest = num3

print("The largest number is", largest)
```

```
Enter first number: 12
Enter second number: 13
Enter third number: 14
The largest number is 14.0
```

for loop

```
# To take input from the user
num = (input("Display multiplication table of? "))

# Iterate 10 times from i = 1 to 10
for i in range(1, 11):
   print(num, 'x', i, '=', num*i)
```

```
print(num, 'x', i, '=', num*i)
```

```
Display multiplication table of? 5
5 x 1 = 5
5 x 2 = 55
5 x 3 = 555
5 x 4 = 5555
5 x 5 = 55555
5 x 6 = 555555
5 x 7 = 5555555
5 x 8 = 55555555
5 x 9 = 555555555
5 x 10 = 5555555555
```

While loop

```
nterms = int(input("How many terms? "))
# first two terms
n1, n2 = 0, 1
count = 0

# check if the number of terms is valid
if nterms <= 0:
   print("Please enter a positive integer")
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)
else:
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
       nth = n1 + n2
       # update values
       n1 = n2
       n2 = nth
       count += 1
```

```
How many terms? 5
Fibonacci sequence:
0
1
1
2
3
```

string

```
# defining strings in Python
# all of the following are equivalent
my_string = 'Hello'
print(my_string)

my_string = "Hello"
print(my_string)

my_string = '''Hello'''
print(my_string)

# triple quotes string can extend multiple lines
my_string = """Hello, welcome to
           the world of Python"""
print(my_string)
```

```
Hello
Hello
Hello
Hello, welcome to
           the world of Python
```

Accessing your string

```
#Accessing string characters in Python
str = 'programiz'
print('str = ', str)

#first character
print('str[0] = ', str[0])

#last character
print('str[-1] = ', str[-1])

#slicing 2nd to 5th character
print('str[1:5] = ', str[1:5])

#slicing 6th to 2nd last character
print('str[5:-2] = ', str[5:-2])
```

```
str =  programiz
str[0] =  p
str[-1] =  z
str[1:5] =  rogr
str[5:-2] =  am
```

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