The print() function is used to output data to the standard output device, typically the console.

```
print("Welcome!!!")
 In [ ]:
          Welcome!!!
          Print a your favourite book/movie title
 In [1]:
               print("Cast Away")
          Cast Away
 In [ ]:
               print(25)
           25
 In [ ]:
                print(176.5)
           176.5
          #Rules for variable naming Must start with a letter (a-z, A-Z) or an underscore ( ).
          Can be followed by letters, digits (0-9), or underscores.
          Cannot start with a digit.
          Are case-sensitive (Age and age are different)
          Examples:
          Valid: myVariable, _my_variable, variable123
           Invalid: 1variable, variable-name, variable!
In [19]:
               #variable initialization
               age=44
             2
            3
               Age=7
               print(age)
                print(Age)
           44
           7
 In [6]:
               acc_balance=10000
                print(acc_balance)
 In [7]:
           10000
```

Programming comments

Comments in programming are text notes included within the code to provide explanations, clarifications, or to leave reminders for developers. They are ignored by the compiler or interpreter, meaning they do not affect the execution of the code.

```
single line comment: #
          multiple line comment:
          """ This is
          a multiline
          comment """
              0.000
In [23]:
           2 this is
              multiline
              comment
              print("Hello")
          Hello
              #Task - Initialize height variable and print it
 In [ ]:
              #Task - Initialize population variable and print it
 In [ ]:
In [25]:
              #initialising string variable
           1
              name="Sibo"
              print("My name is ", name)
          My name is Sibo
```

```
In [ ]:
              #Task - Initialize country and capital variable and print them
         #Special characters
         \n New line character - adds a line break in the text.
         \t - adds a tab in the text
              print("My name is Nilay. I worked at Digital Regenesys. My skills inclu
 In [ ]:
                                                                                      >
         My name is Nilay. I worked at Digital Regenesys. My skills include Data Sc
          ience and AI
In [29]:
              print("My name is Nilay.\tI worked at Digital Regenesys.\tMy skills inc
         My name is Nilay.
                                  I worked at Digital Regenesys. My skills include
         Data Science and AI
              #add \n in the following print statement
 In [ ]:
              print("This is for the first time I am writing Python code. Python seem
                                                                                      >
 In [ ]:
              #add \t in the following print statement
              print("This is for the first time I am writing Python code. Python seem
In [30]:
              # data type
              type(age)
Out[30]: int
In [31]:
              height=177.8
              type(height)
Out[31]: float
              country="Kenya"
In [32]:
              type(country)
Out[32]: str
In [ ]:
              # get the data type of height, country, name using type()
```

```
In [ ]:
           1 #computation using variable
           2 #addition code
           3 x=5
           4 y=2
           5
              sum=x+y
              sum
Out[35]: 7
           1 #printing z value i.e. output
In [ ]:
              print("The sum of x and y is ",sum)
          The sum of x and y is 7
In [ ]:
           1 #printing input values i.e. x and y along with output value i.e. z
              print("The sum of", x ,"and", y," is ",sum)
          The sum of 5 and 2 is 7
 In [ ]:
          #Arithmetic operators : Addtion: +
          х+у
          Subtraction: -
          х-у
          Multiplication: *
          x*y
          Division: /
          x/y
          Integer division: //
          x//y
          Modulus (Remainder): %
          х%у
          Exponent: **
          x**y
```

The subtraction of 5 and 2 is 3
The multiplication of 5 and 2 is 10
The division of 5 and 2 is 2.5

#Keywords Python has a set of reserved words that have special meanings and cannot be used as identifiers (such as variable names, function names, etc.). These reserved words are known as keywords. Here's a list of all the Python keywords:

```
In [ ]:
         1 #billing app for coffee shop
         2 #initialise variables
         3 unit price=5
         4 order_count=18
         5
         6 #calculate bill amount
         7
            bill_amount=unit_price*order_count
         8
         9 #print the output
            print("The unit price = R",unit price)
         10
            print("The order count = R",order_count)
        11
            print("The bill amount = R",bill amount)
         12
         13
```

The unit price = R 5
The order count = R 18
The bill amount = R 90

```
In []: 1 """
2 Write a Python code to
3 calculate sum of marks obtained in three subjects (maximum marks for ea
4 and print the final output
5 """
In []: 1
```

input() Function

The input() function is used to take input from the user. It reads a line from the input (usually from the user via the keyboard) and returns it as a string.

```
In [ ]:
             #billing app for coffee shop
             #initialise variables
           3 unit_price=5
           4 order_count=input("Enter the order count:")
         Enter the order count:3
 In [ ]:
             order_count
Out[41]:
         '3'
 In [ ]:
              #calculate bill amount
           2
             bill_amount=unit_price*order_count
           3
           4 #print the output
             print("The unit price = R",unit price)
             print("The order count = R", order count)
           7
              print("The bill amount = R",bill_amount)
           8
         The unit price = R 5
         The order count = R 3
         The bill amount = R 33333
              .....
 In [ ]:
           2 Write a Python code to accept marks of three subjects using input funct
             calculate sum of marks (maximum marks for each subject: 100)
           4
             and print the final output
           5
                                                                                     >
```

```
In [ ]:
            Write a Python code for the following scenario:
          2
            A household consumes 350 units of electricity in a month, with the rate
          4 Calculate the total electricity bill for the month and display the unit
          5
            0.00
          6
             <
                                                                                  >
In [ ]:
          2 Write a Python code for the following scenario:
            For a given value of basic salary, calaculate gross salary considering
          3
                                                                                  >
             <
```