

In [1]: #Q1 Write a Python program that prints "Hello, World!" to the console.

print("Hello World")

Hello World

In [2]: #Q2. Create variables to store your name, age, and favorite hobby. Print these variables.

name = "pooja"
age = 22
hobby = "dancing"

print("name:", name)
print("age:", age)
print("hobby:", hobby)

name: pooja
age: 22
hobby: dancing

In []: #Q3 Add comments to your code explaining what each line does.

In [4]: #Q4. Write a Python program that takes an integer input from the user and prints whether the number is #positive, negative, or zero.

num = int(input("Enter a number")) #taking integer input from user

cheching number is positive, negative or zero.
if num > 0:
 print("The number is positive")

elif num < 0:
 print("The number is nignative")

else:
 print("The number is zero")

The number is nignative

In [5]: #Q5. Create a program that checks if a given year is a leap year.

yr = int(input("Enter a year"))

if yr % 4 == 0:
 print("Enter year ia a leap year")

else:
 print("Enter year is not leap year")

Enter year ia a leap year

In [6]: #Q6 . Write a Python program to print the first 10 natural numbers using a for loop.

for i in range(1, 11):
 print(i)

1
2
3
4
5
6
7
8
9
10

In [1]: #Q7 Create a program that prints the multiplication table of a given number using a while loop.

num = int(input("Enter a number"))

m = 1

while m <= 10:
 result = num * m
 print(f"{num}*{m}= {result}")
 m += 1

6*1= 6
6*2= 12
6*3= 18
6*4= 24
6*5= 30
6*6= 36
6*7= 42
6*8= 48
6*9= 54
6*10= 60

In [7]: #Q8 . Write a Python program that iterates through numbers 1 to 10 and prints each number. Use the #continue statement to skip numbers that are divisible by 3.

for i in range(1, 11):
 # If the number is divisible by 3, skip
 if i % 3 == 0:
 continue #If the number is divisible by 3, continue to print number

 print(i)

1
2
4
5
7
8
10

In [10]: #Q9 Create a program that stops printing numbers when it encounters a number greater than 5 using the #break statement.

for i in range(1, 11):
 # Check if the number is greater than 5
 if i > 5:
 break # loop will break after condition false

 print(i)

1
2
3
4
5

In [15]: #Q10 Define a function called greet that takes a name as an argument and prints "Hello, [name]!".

def greet(name):
 print(f"Hello {name}!")

greet("pooja")
greet("Gayatri")

Hello pooja!
Hello Gayatri!

In [17]: #Q11. Create a function that takes two numbers as arguments and returns their sum.

def sum(a, b): # take two arguments
 result = a + b # store their summation as a result
 print(result) # print the result

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sum(20, 40)# calling a function
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```
60
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In [ ]:
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