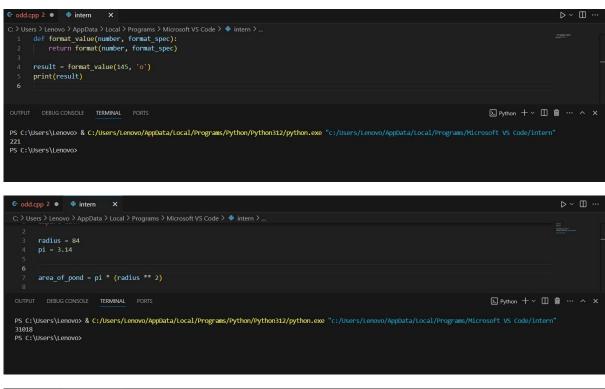
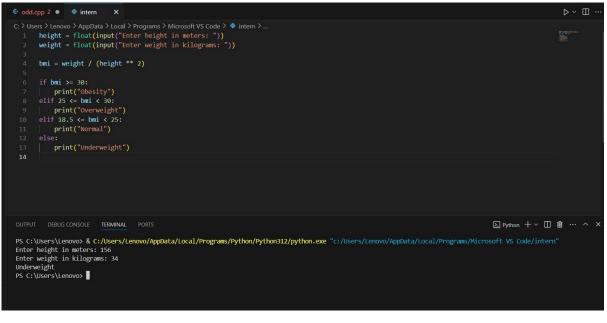
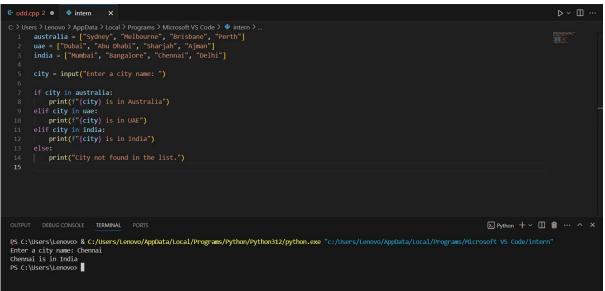
1. Variables

2. Numbers



3. If Condition





```
C.) Users > Lenovo > AppData > Local > Programs > Microsoft VS Code > Intern > ...

1 australia = ["Sydney", "Melbourne", "Brisbane", "Perth"]
2 uae = ["Dubai", "Abu Dhabi", "Sharjah", "Ajman"]
3 india = ["Mumbai", "Bangalore", "Chennai", "Delhi"]
4
5 city1 = input("Enter the first city: ")
6 city2 = input("Enter the second city: ")
7
8 if city1 in australia and city2 in australia:
9 | print("Both cities are in Australia")
10 elif city1 in uae and city2 in uae:
11 | print("Both cities are in India")
12 else:
13 | print("Both cities are in India")
14 else:
15 | print("They don't belong to the same country")
16

OUTPUT DEBUG CONSOLE TERMINAL PORTS

DIPython +> Image: "C:/Users/Lenovo/AppOata/Local/Programs/Python/Python312/python.exe "c:/Users/Lenovo/AppOata/Local/Programs/Microsoft vS Code/intern"
Enter the first city: Ajman
Enter the Second city: Dubai
Both cities are in UME
PS C:/Users\Lenovo | Image: Ima
```

4. For Loop:

```
Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
  # Initialize counters
  Count_6 = 0

count_1 = 0

count_1 = 0

count_1 = 0

previous roll = 0

previous roll = 0

mm_rolls = 20 # Number of rolls (you can increase this for more rolls)
 # Simulate rolling a die 20 times
for i in range(num rolls):
    roll = random.randint(1, 6)  # Simulate a die roll (1-6)
    print(f*Roll {i+1}; {roll}*)
        # Count how many times 6 is rolled
if roll == 6:
    count_6 += 1
         # Count how many times 1 is rolled
if roll == 1:
    count_1 += 1
 # Print the statistics
print("\nStatistics after (num_rolls) rolls:")
print("\nStatistics after (num_rolls) rolls:")
print("\nStatistics after (num_rolls) a c: (count_6)")
print("\nStatistic after (num_rolls) a c: (count_1)")
print("\nStatistic after (num_rolls) a count_1)")
print("\nStatistic after (num_rolls) a count_1)")
                                                                                                                                                                                           Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938 64 bit (AMD64)] on win32 "type "help", "copyright", "credits" or "license()" for more information.
total_jumping_jacks = 100
set_size = 10
completed_jumping_jacks = 0
                                                                                                                                                                                             == RESTART: C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/intern1.py =
                                                                                                                                                                                            Perform 10 jumping jacks.
Are you tired? (yes/y or no/n): yes
Do you want to skip the remaining sets? (yes/y or no/n): yes
You completed a total of 10 jumping jacks.
while completed jumping jacks < total jumping jacks:
   print(f"\nPerform [set size) jumping jacks.")
   completed jumping jacks += set size
   tired = input("Are you tired? [yes/y or no/n): ").lower()</pre>
       if tired == "yes" or tired == "y":
               skip = input("Do you want to skip the remaining sets? (yes/y or no/n): ").lower() if <math>skip == "yes" or skip == "y":
             break
else:
    print(f"(total_jumping_jacks - completed_jumping_jacks) jumping jacks remaining.
              print(f"{total_jumping_jacks - completed_jumping_jacks} jumping jacks remaining.")
if completed_jumping_jacks >= total_jumping_jacks:
    print("Congratulations! You completed the workout.")
       ::
print(f"You completed a total of {completed_jumping_jacks} jumping jacks.")
```

5. Dictionary

```
your expenses = {
    "Hotel": 1200,
    "Food": 300,
    "Transportation": 500,
    "Attractions": 300,
    "Miscellaneous": 200
}

partner_expenses = {
    "Hotel": 1200,
    "Food": 900,
    "Transportation": 600,
    "Transportation": 600,
    "Transportation": 400,
    "Miscellaneous": 150
}

your_total = sum(your expenses.values())
partner_total = sum(partner_expenses.values())
print(f"Your total expenses: 5(partner_total)")
print(f"Your partner's total expenses: 5(partner_total)")
if your_total > partner_total:
    print("You spent more money overall.")
elif partner_total > your_total:
    print("You ratner spent more money overall.")
else:
    print("You and your partner spent the same amount.")
max_diff_category = None
max_diff_category = None
max_diff_category = None
max_diff_category = None
max_diff_category = name(
    if diff_category = name(
    if diff_catego
```

```
Python 3.12.3 (tags/v3.12.3:f6650f9, Apr 9 2024, 14:05:25) [MSC v.1938 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:/Users/Lenovo/AppBata/Local/Programs/Python/Python312/intern2.py
Your total expenses: 33000
Your partner's total expenses: 33050
Your partner's total expenses: 03050
Your partner's total expenses: 03050
Your partner spent more money overall.
The largest difference in spending is in the 'Hotel' category with a difference of $200.
```