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**Internship Domain: Python** 

Task Week: 2

**Instructor Name: Hassan Ali** 

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Task 1
[2]: full_name = "Aisha Khan"
     current_year = 2025
     country = "Pakistan"
     hobby = "None"
     expected_graduation_year = current_year + 2
     years_left = expected_graduation_year - current_year
     print(" ****** Mini Profile:
     print(f"My name is (full_name). I am {age} years old and live in (country).")
     print(f"My hobby is (hobby). The current year is (current_year), and I expect to graduate in (expected_graduation_year).")
                                                                                                                                                     0
     print(f"There are {years_left} years left until I graduate.")
                      Mini Profile:
     My name is Aisha Khan. I am 20 years old and live in Pakistan.
     My hobby is None. The current year is 2025, and I expect to graduate in 2027.
     There are 2 years left until I graduate.
```

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Task 2
[4]: name1 = "Ali Raza"
      profession1 = "Software Engineer"
      country1 = "Pakistan"
      is_employed1 = True
      name2 = "Sara Malik"
      profession2 = "Data Analyst"
      country2 = "Dubai"
      is_employed2 = False
      name3 = "Salma Khan"
      profession3 = "Teacher"
      country3 = "Germany"
      is_employed3 = True
                         ****** User Profiles:
      print(f"('Name':<15) ('Profession':<20) ('Country':<15) ('Employed':<10)")
      print("-" * 60)
      print(f^*(name1; <15) \ (profession1; <20) \ (country1; <15) \ (str(is\_employed1); <10)^*)
      print(f^*[name2; <15] \ \{profession2; <2\theta\} \ \{country2; <15\} \ \{str(is\_employed2); <1\theta\}^*)
                                                                                                                                                                            0
      print(f^*[name3:<15] \ \{profession3:<2\theta\} \ [country3:<15] \ \{str(is\_employed3):<1\theta\}^*)
                   *****
                               User Profiles:
                      Profession
                                              Country
                                                               Employed
      Ali Raza Software Engineer Pakistan True
Sara Malik Data Analyst Dubai False
Salma Khan Teacher Germany True
```

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Task 3
[N]: var_str - "Hello"
      var_int = 42
      var_float = 3.14
      var_bool = True
      var_complex - 2 + 35
      print("Original Values and Types:")
      print(f*String: (var_str) ((type(var_str)))*)
print(f*Integer: (ver_int) ((type(var_int)))*)
print(f*Float: (var_float) ((type(var_float)))*)
print(f*Boolean: (var_bool) ((type(var_bool)))*)
      print(f"Complex: (var_complex) ((type(var_complex)))")
                                                                                 *******(0°)
      print("\n
                                     Converted Values and Types:
      try:
converted_str = int(var_str)
      except ValueError:
           converted_str = "Conversion to int failed"
      print(f"String to Int: (converted_str)")
      converted_int = float(var_int)
      print(f"Int to Float: (converted_int) ((type(converted_int)))")
      converted Float = str(ver float)
      print(f"Float to String: [converted_float] ([type(converted_float]))")
      converted_bool = int(var_bool)
      print(f"Boolean to Int: |converted_bool) ((type(converted_bool)))")
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converted_complex = str(var_complex)
print(f*Complex to String: {converted_complex} ({type(converted_complex})*)*)

Original Values and Types:
String: Hello (<class 'str'>)
Integer: 42 (<class 'int'>)
Float: 3.14 (<class 'float'>)
Boolean: True (<class 'bool'>)
Complex: (2+3j) (<class 'complex'>)

******** Converted Values and Types:

*******

String to Int: Conversion to int failed
Int to Float: 42.0 (<class 'float'>)
Float to String: 3.14 (<class 'str'>)
Boolean to Int: 1 (<class 'int'>)
Complex to String: (2+3j) (<class 'str'>)
```

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Task 4

[13]: user_input = input("\nEnter any velue: ")
    print(f*\nPython sees this as type: {type(user_input)}")
    new = type(user_input)

if new = "int":
    print("You entered an integer!")
elif new = "str":
    print("You entered an string!")
else:
    print("You entered a float!")

Enter any value: 4.5

Python sees this as type: <class 'str'>
    You entered a float!
```

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Task 5
[15]: print("Welcome to the Quick Survey!\n")
       name = input("1. What is your name? ")
       favorite_food = input("2. What is your favorite food? ")
       birth_year = input("3, What year were you born in? ")
       favorite_number = input("4. What is your favorite number? ")
       favorite_language = input("5. What is your favorite programming language? ")
       print("\n ****** Survey Summary print(f"Hello (name), great to have you here!")
       print(f"You love eating (favorite_food).")
       print(f"You were born in {birth_year}, which makes you quite experienced!")
       print(f"Your favorite number is (favorite_number) - interesting choice!")
                                                                                                                                                                                     0
       print(f"And your favorite programming language is {favorite_language}. Awesome!")
       Welcome to the Quick Survey!
       1. What is your name? ayesha
2. What is your favorite food? pizza
3. What year were you born in? 2005
       4. What is your favorite number? 24
5. What is your favorite programming language? python
                             Survey Summary
       Hello ayesha, great to have you here!
       You love eating pizza.
       You were born in 2005, which makes you quite experienced!
Your favorite number is 24 — interesting choice!
       And your favorite programming language is python. Awesome!
```

```
Task 6

[17]: current_year = 2025
    birth_year = int(input("Enter your year of birth: "))
    age = current_year - birth_year
    print(f"\Nou are lage} years old.")
    if age >= 18:
        print("You are eligible to vote.")
    else:
        print("You are not eligible to vote yet.")

Enter your year of birth: 20

You are 2005 years old.
    You are eligible to vote.
```

```
Task 7
[19]: print("Welcome to the Marks Percentage Calculator!\n")
       m1 = int(input("Enter marks for Subject 1: "))
m2 = int(input("Enter marks for Subject 2: "))
       m3 = int(input("Enter marks for Subject 3: "))
       m4 = int(input("Enter marks for Subject 4: "))
       m5 = int(input("Enter marks for Subject 5: "))
       total_marks = m1 + m2 + m3 + m4 + m5
       percentage = (total_marks / 500) * 100
       if percentage >= 90:
grade = "A"
       elif percentage >= 80:
           grade = "B"
       elif percentage >= 70:
       grade = "C"
else:
          grade = "Fail"
       print("\n ********
                                     Result
       print(f"Total Marks: {total_marks}/500")
       print(f"Percentage: {percentage:.2f}%")
       print(f"Grade: (grade)")
       Welcome to the Marks Percentage Calculator!
       Enter marks for Subject 1: 45
       Enter marks for Subject 2: 7
Enter marks for Subject 3: 65
Enter marks for Subject 4: 98
       Enter marks for Subject 5: 65
       Total Marks: 280/500
        Percentage: 56.00%
       Grade: Fail
```

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Task 8
                                                                                                                                            百个少去早日
[20]: print("\nkelcome to the Temperature Converter!\n")
         celsius = float(input("Enter temperature in Celsius: "))
          fahrenheit = (celsius * 9/5) + 32
          print(f*[celsius:.2f]°C is equal to (fahrenheit:.2f)°F*)
       except ValueError:
          print("Invalid input! Please enter a numeric values")
         fahrenheit_input = float(input("\nNow enter temperature in Fahrenheit: "))
celsius_converted = (fahrenheit_input - 32) * 5/9
         print(f^*(fahrenheit\_input:.2f)^oF \ is \ equal \ to \ \{celsius\_converted:.2f\}^oC'')
      except ValueError:
                                                                                                                                                                 0
      print("Invalid input! Please enter a numeric values")
      Welcome to the Temperature Converter!
       Enter temperature in Celsius: 44
       44.00°C is equal to 111.20°F
       Now enter temperature in Fahrenheit: 88
       88.00°F is equal to 31.11°C
```