ASSIGNMENT 1 IN FUNCTIONS FORM
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# ------------------- TASK 1 -------------------
def task1():
    try:
        int_var = 16
        float_var = 12.98
        str_var = "Vandal"
        bool_var = False
        print(int_var, type(int_var))
        print(float_var, type(float_var))
        print(str_var, type(str_var))
        print(bool_var, type(bool_var))
    except Exception as e:
        print(f"Error in Task 1: {e}")


# ------------------- TASK 2 -------------------
def task2():
    try:
        float_var = 28.77
        int_var = 70
        string_var = "70"

        float_to_integer = int(float_var)
        int_to_string = str(int_var)
        string_to_float = float(string_var)

        print(f"""
        {float_to_integer}, {type(float_to_integer)}
        {int_to_string}, {type(int_to_string)}
        {string_to_float}, {type(string_to_float)}
        """)
    except Exception as e:
        print(f"Error in Task 2: {e}")


# ------------------- TASK 3 -------------------
def task3():
    try:
        first_name = input("Input your first name : ")
        last_name = input("Input your last name : ")
        print(f"Hello, {first_name} {last_name}!")
    except Exception as e:
        print(f"Error in Task 3: {e}")


# ------------------- TASK 4 -------------------
def task4():
    try:
        age = 20
        print("You are " + str(age) + " years old")
        # The second one raises error
        try:
            print("You are " + age + " years old")
        except TypeError:
            print("Error: Cannot concatenate str and int without conversion.")
    except Exception as e:
        print(f"Error in Task 4: {e}")


# ------------------- TASK 5 -------------------
def task5():
    try:
        fav_word = input("What is your favorite word ?\nAnswer: ")
        repeat = int(input(f"How many times do you want to repeat {fav_word}?\nAnswer: "))
        print((fav_word + " ") * repeat)
    except ValueError:
        print("Error: Please enter a valid number for repetition.")
    except Exception as e:
        print(f"Error in Task 5: {e}")


# ------------------- TASK 6 -------------------
def task6():
    try:
        # A. Syntax Error (can't be caught at runtime, so just explaining)
        print("A. Syntax Error → happens if code is incomplete like: print('Hello'")

        # B. Value Error
        try:
            int("abc")
        except ValueError:
            print("B. ValueError → cannot convert 'abc' to int")
        # C. Type Error
        try:
            result = "age" + 10
        except TypeError:
            print("C. TypeError → cannot concatenate str and int")
    except Exception as e:
        print(f"Error in Task 6: {e}")


# ------------------- RUNNING TEST -------------------
if __name__ == "__main__":
    task1()
    task2()
    # task3()   # uncomment to test input
    task4()
    # task5()   # uncomment to test input
    task6()
```