# Python_Review_P#4_Labs

Try and Except

Write a program that do the following :. Ask

the user to enter his name.

. Ask the user to enter his age.

. If his age is between 0 and 6, then print "Kid"

. Else if his age is under 0, then print "Wrong age value, you can not enter value 0 or less."

. Else if the age is greater than 6, do the following :An empty variable called

- total_cost with initial value 0. Ask him to enter the number of
- items that he wants to buy.
- for each item, do the following :Ask
  - him to enter the item name.
  - Ask him to enter the item price.
  - Ask him to enter the item quantity.
  - You need to calculate the item total cost by multiplying the quantity by the price and name it as item_cost.
    - Then, you need to update the total_cost variable by adding the value of item_cost.
    - Print the item_cost and the total_cost.
  - Now, if the total_cost is greater than 200, make a discount by 20% for this special customer!!

. Do not forget to handle any unexpected inputs from the users (Just cast the input values and catch the errors!!).

. Finally, ask the user if he want to repeat the same process from step 1 until 6 or not, Use the loops, but one of them ;)

- Note : The ask is after catching the errors.

Answer:

```python
def main():
  while True:
    try:
      # To Get user name
      name = input("What is your name? ")

      # To Get user age
      age = int(input("Enter your age: "))

      # To Check for valid age
      if age < 0:
        print("Wrong age value, you cannot enter 0 or less.")
        continue

      # Age categories
      if age <= 6:
        print("Hi Kid,", name)
      else:
        total_cost = 0

        # To Get number of items
        num_items = int(input("Enter the number of items you want to buy: "))

        # To Loop for each item
        for i in range(num_items):
          item_name = input(f"Enter item {i+1} name: ")

          # To Get item price with error handling
          while True:
            try:
              item_price = float(input(f"Enter the price of {item_name}: "))
              break
            except ValueError:
              print("Invalid price. Please enter a number.")

          # To Get item quantity with error handling
          while True:
            try:
              item_quantity = int(input(f"Enter the quantity of {item_name}: "))
              break
            except ValueError:
              print("Invalid quantity. Please enter a whole number.")

          # To Calculate item cost
          item_cost = item_price * item_quantity
```

```python
            # To Update total cost
            total_cost += item_cost

            # Print item details
            print(f"Item {i+1} cost: ${item_cost:.2f}")

        # To Apply discount for total cost over 200
        if total_cost > 200:
            discount = total_cost * 0.2
            total_cost -= discount
            print(f"You get a 20% discount! Total cost after discount:
${total_cost:.2f}")
        else:
            print(f"Total cost: ${total_cost:.2f}")

        # TO Repeat prompt
        repeat = input("Do you want to repeat (y/n)? ").lower()
        if repeat != "y":
            break

    except ValueError:
        print("Invalid input detected. Please enter valid values.")

if __name__ == "__main__":
    main()
```