```python
# Simple Shopping Cart Application in Python


# Predefined products

Products = {

    1: {"name": "Laptop", "price": 50000},

    2: {"name": "Smartphone", "price": 20000},

    3: {"name": "Headphones", "price": 2000},

    4: {"name": "Keyboard", "price": 1500},

    5: {"name": "Mouse", "price": 800}

}


Cart = {}  # {product_id: quantity}

MAX_ITEMS = 8


Def show_products():

    Print("\nAvailable Products:")

    For pid, details in products.items():

        Print(f"{pid}. {details['name']} - ₹{details['price']}")


Def view_cart():

    If not cart:

        Print("\nYour cart is empty.")

        Return

    Print("\nYour Shopping Cart:")

    Total = 0

    For pid, qty in cart.items():
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        Item_total = products[pid]['price'] * qty

        Total += item_total

        Print(f"{products[pid]['name']} (x{qty}) - ₹{item_total}")

    Print(f"Total: ₹{total}")


Def add_to_cart():

    If len(cart) >= MAX_ITEMS:

        Print("\nCart limit reached! You can only add 8 items.")

        Return

    Show_products()

    Try:

        Pid = int(input("Enter product ID to add: "))

        If pid not in products:

            Print("Invalid product ID!")

            Return

        Qty = int(input("Enter quantity: "))

        If qty <= 0:

            Print("Quantity must be greater than 0.")

            Return

        If pid in cart:

            Cart[pid] += qty

        Else:

            Cart[pid] = qty

        Print(f"{products[pid]['name']} added to cart.")

    Except ValueError:

        Print("Invalid input! Please enter numbers only.")
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Def update_cart():
    If not cart:
        Print("\nCart is empty, nothing to update.")
        Return
    View_cart()
    Try:
        Pid = int(input("Enter product ID to update: "))
        If pid not in cart:
            Print("Item not in cart!")
            Return
        Qty = int(input("Enter new quantity: "))
        If qty <= 0:
            Del cart[pid]
            Print("Item removed from cart.")
        Else:
            Cart[pid] = qty
            Print("Quantity updated.")
    Except ValueError:
        Print("Invalid input!")


Def remove_item():
    If not cart:
        Print("\nCart is empty, nothing to remove.")
        Return
    View_cart()
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    Try:

        Pid = int(input("Enter product ID to remove: "))

        If pid in cart:

            Del cart[pid]

            Print("Item removed from cart.")

        Else:

            Print("Item not found in cart.")

    Except ValueError:

        Print("Invalid input!")


Def checkout():

    If not cart:

        Print("\nYour cart is empty. Nothing to checkout.")

        Return True

    View_cart()

    Print("\nThank you for shopping with us!")

    Return True


# Main Program

Def main():

    While True:

        Print("\n--- Shopping Cart Menu ---")

        Print("1. View Products")

        Print("2. Add to Cart")

        Print("3. View Cart")

        Print("4. Update Cart")
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        Print("5. Remove Item")

        Print("6. Checkout & Exit")


        Choice = input("Enter your choice: ")


        If choice == "1":

            Show_products()

        Elif choice == "2":

            Add_to_cart()

        Elif choice == "3":

            View_cart()

        Elif choice == "4":

            Update_cart()

        Elif choice == "5":

            Remove_item()

        Elif choice == "6":

            If checkout():

                Break

        Else:

            Print("Invalid choice! Try again.")


If __name__ == "__main__":

    Main()
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