**Program to score**

score = float(input("Enter score: "))

if score < 0 or score > 100:

print("Invalid score")

elif 50 <= score < 90:

print("Passable")

elif score >=90:

print("Excellent")

else:

print("Bad")

**program to display pattern with user defined input**

for i in range(1, 21, 2):

print(i, end=' ')

print()

for a in range(0, 101, 10):

print(a, end=' ')

print()

for b in range(20, 0, -1):

print(b, end=' ')

print()

stars = int(input("Enter stars: "))

for c in range(0, stars):

print("\*", end=' ')

print()

for d in range(0, stars):

for e in range(0, d+1):

print("\*", end="")

print("\r")

print()

**Program to calculate and display a user's bonus based on sales**

DOC = """Program to calculate and display a user's bonus based on sales.

If sales are under $1,000, the user gets a 10% bonus.

If sales are $1,000 or over, the bonus is 15%."""

sales = float(input("Enter sales: $"))

while sales >= 0:

if 0 <= sales < 1000:

bonus = sales \* 10 / 100

print("Bonus: $", bonus)

sales = float(input("Enter sales: $"))

elif sales >= 1000:

bonus = sales \* 15 / 100

print("Bonus: $", bonus)

sales = float(input("Enter sales: $"))

else:

print("Invalid sales")

**program to calculate the total price of the proucts**

items = int(input("Number of items: "))

total = 0

while items <= 0:

print("Invalid number")

items = int(input("Number of items: "))

for i in range(0, items):

price = float(input("Price of item: "))

total += price

if total > 100:

total = total - (total \* 10 / 100)

print("Total price for", items, "items is ${:.2f}".format(total))

**program to convert c to f and f to c**

MENU = """C - Convert Celsius to Fahrenheit

F - Convert Fahrenheit to Celsius

Q - Quit"""

print(MENU)

choice = input(">>> ").upper()

while choice != "Q":

if choice == "C":

celsius = float(input("Celsius: "))

fahrenheit = celsius \* 9.0 / 5 + 32

print("Result: {:.2f} F".format(fahrenheit))

elif choice == "F":

fahrenheit = float(input("Fahrenheit: "))

celsius = 5 / 9 \* (fahrenheit - 32)

print("Result: {:.2f} C".format(celsius))

else:

print("Invalid option")

print(MENU)

choice = input(">>> ").upper()

print("Thank you.")