def calculate\_grade(marks):

if marks >= 90:

return "A+"

elif 80 <= marks < 90:

return "A"

elif 70 <= marks < 80:

return "B"

elif 60 <= marks < 70:

return "C"

elif 50 <= marks < 60:

return "D"

else:

return "Fail"

def get\_valid\_marks\_input():

while True:

try:

marks = float(input("Enter the marks obtained: "))

if 0 <= marks <= 100:

return marks

else:

print("Invalid input. Marks should be between 0 and 100.")

except ValueError:

print("Invalid input. Please enter a valid number for marks.")

def main():

while True:

try:

marks = get\_valid\_marks\_input()

grade = calculate\_grade(marks)

print(f"The grade for the student is: {grade}")

except KeyboardInterrupt:

print("\nExiting the program.")

break

if \_\_name\_\_ == "\_\_main\_\_":

main()