Source Code:

```
print("Enter three sides: ")
a=int(input())
b=int(input())
c=int(input())
if(a+b<=c) or (a+c<=b) or (c+b<=a):
    print("Triangle can be formed ")
else:
    print("Triangle cannot be formed ")
```

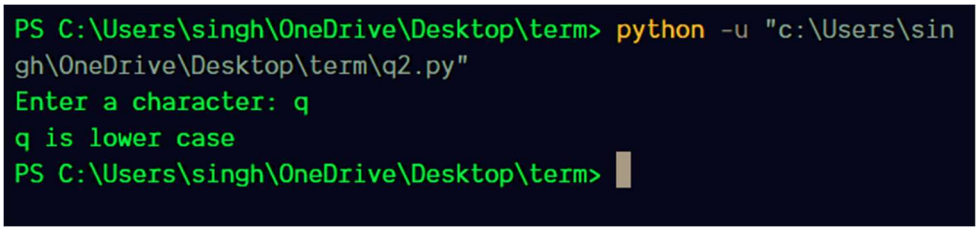
Output:

```
PS C:\Users\singh\OneDrive\Desktop\term> python -u "c:\Users\sin
gh\OneDrive\Desktop\term\tempCodeRunnerFile.py"
Enter three sides:
7
8
5
Triangle cannot be formed
PS C:\Users\singh\OneDrive\Desktop\term>
```

Source code:

```
char=input("Enter a character: ")[0]
if(char.islower()):
    print(char+" is lower case")
elif(char.isupper()):
    print(char+" is upper case")
elif(char.isdigit()):
    print(char+" is a digit")
else:
    print(char+" is a special")
```

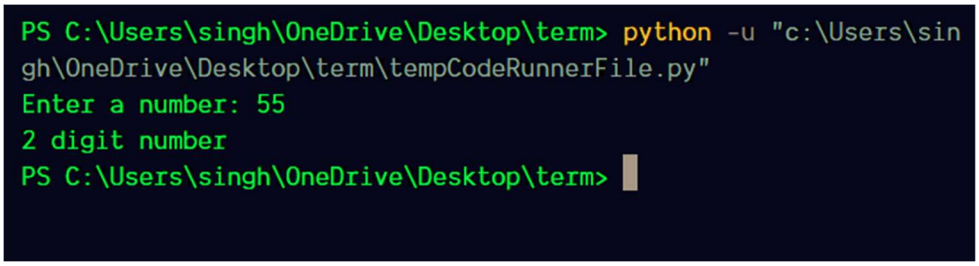
Output:



Source code:

```
num=int(input("Enter a number: "))
count=0
while(num>0):
    count+=1
    num=num//10
print(count,"digit number")
```

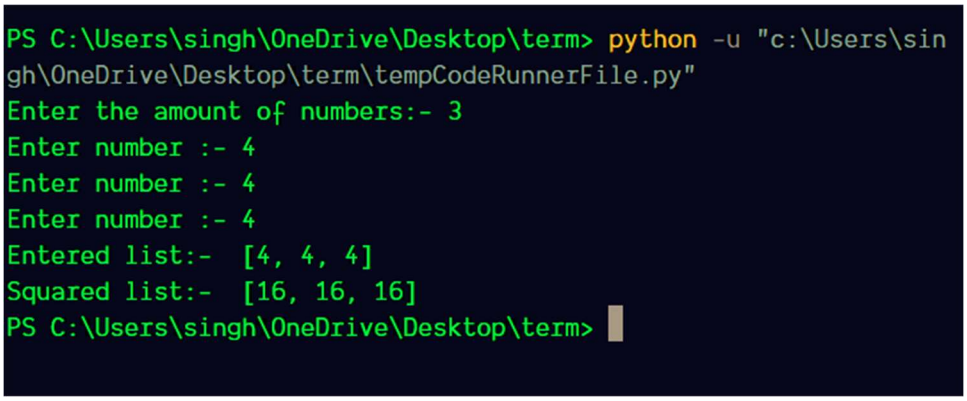
Output:



Source Code:

```
list1=[]
square=[]
limit=int(input("Enter the amount of numbers:- "))
i=0
while(i<limit):
    list1.append(int(input("Enter number :- ")))
    square.append(list1[i]**2)
    i+=1
print("Entered list:- ",list1)
print("Squared list:- ",square)
```

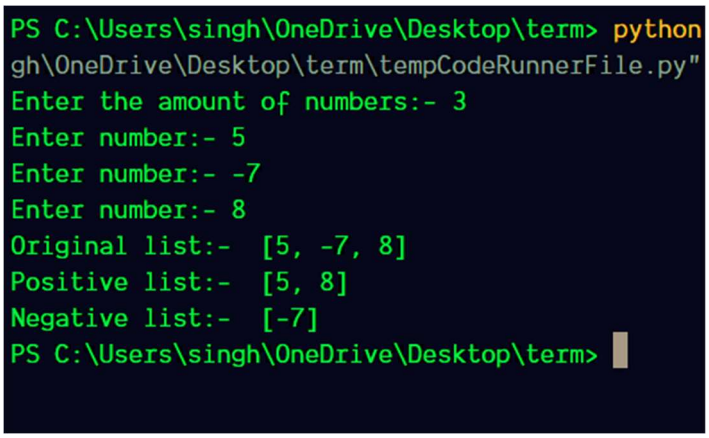
Output:



Source Code:

```
list1=[]
positive=[]
negative=[]
limit=int(input("Enter the amount of numbers:- "))
i=0
while(i<limit):
    list1.append(int(input("Enter number:- ")))
    if(list1[i]>0):
        positive.append(list1[i])
    else:
        negative.append(list1[i])
    i+=1
print("Original list:- ",list1)
print("Positive list:- ",positive)
print("Negative list:- ",negative)
```

Output:



Source Code:

```
start=int(input("Enter starting range:- "))+1
end=int(input("Enter ending range:- "))
while(start<end):
    i=2
    count=0
    while(i<start):
        if(start%i==0):
            count+=1
        i+=1
    if(count==0):print(start)
    start+=1
```

Output:

Source Code:

```
i=0
j=1
while(i<9):
    print(j*'*')
    if(i>=4):j-=1
    else:j+=1
    i+=1
```

Output: