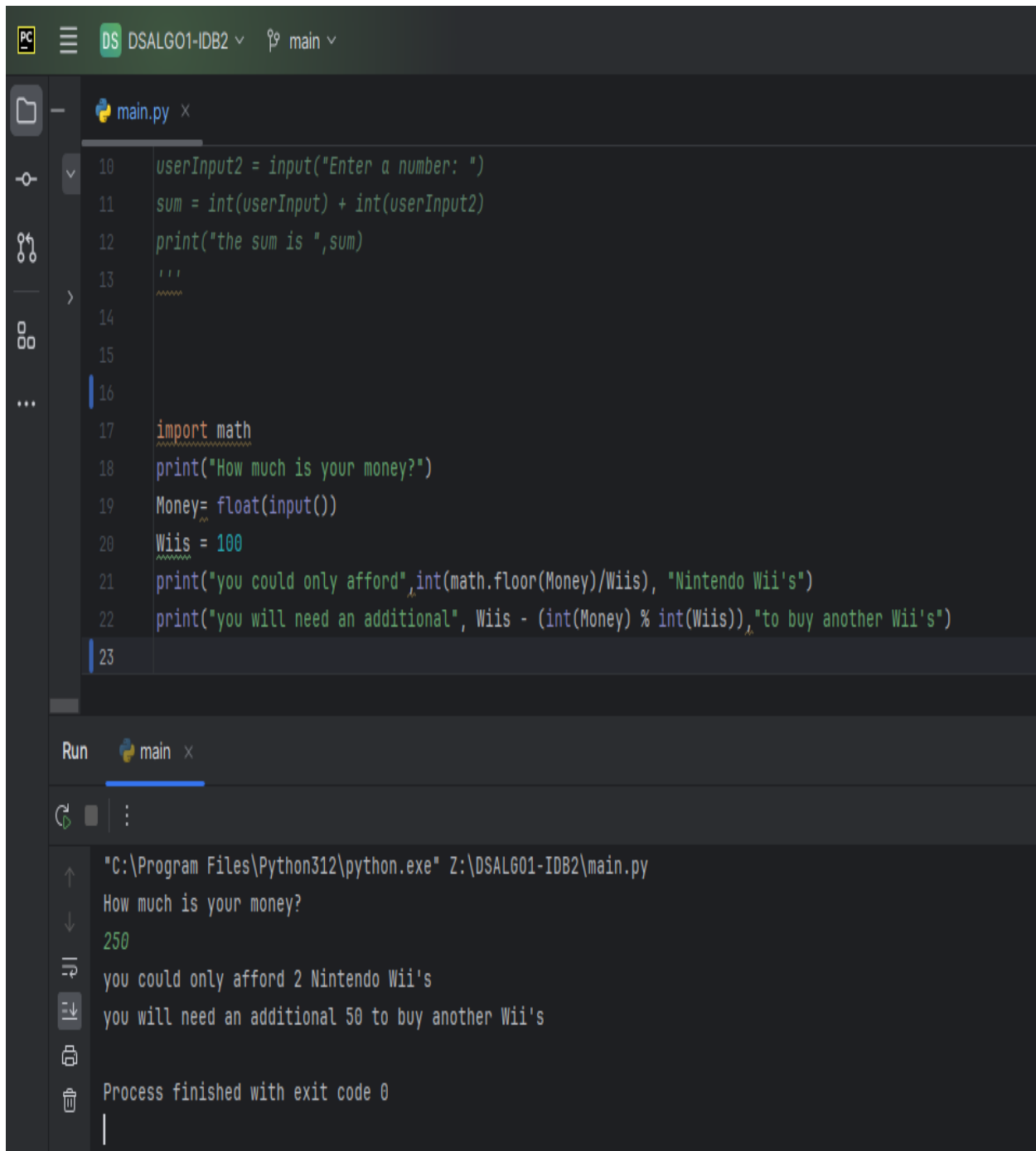


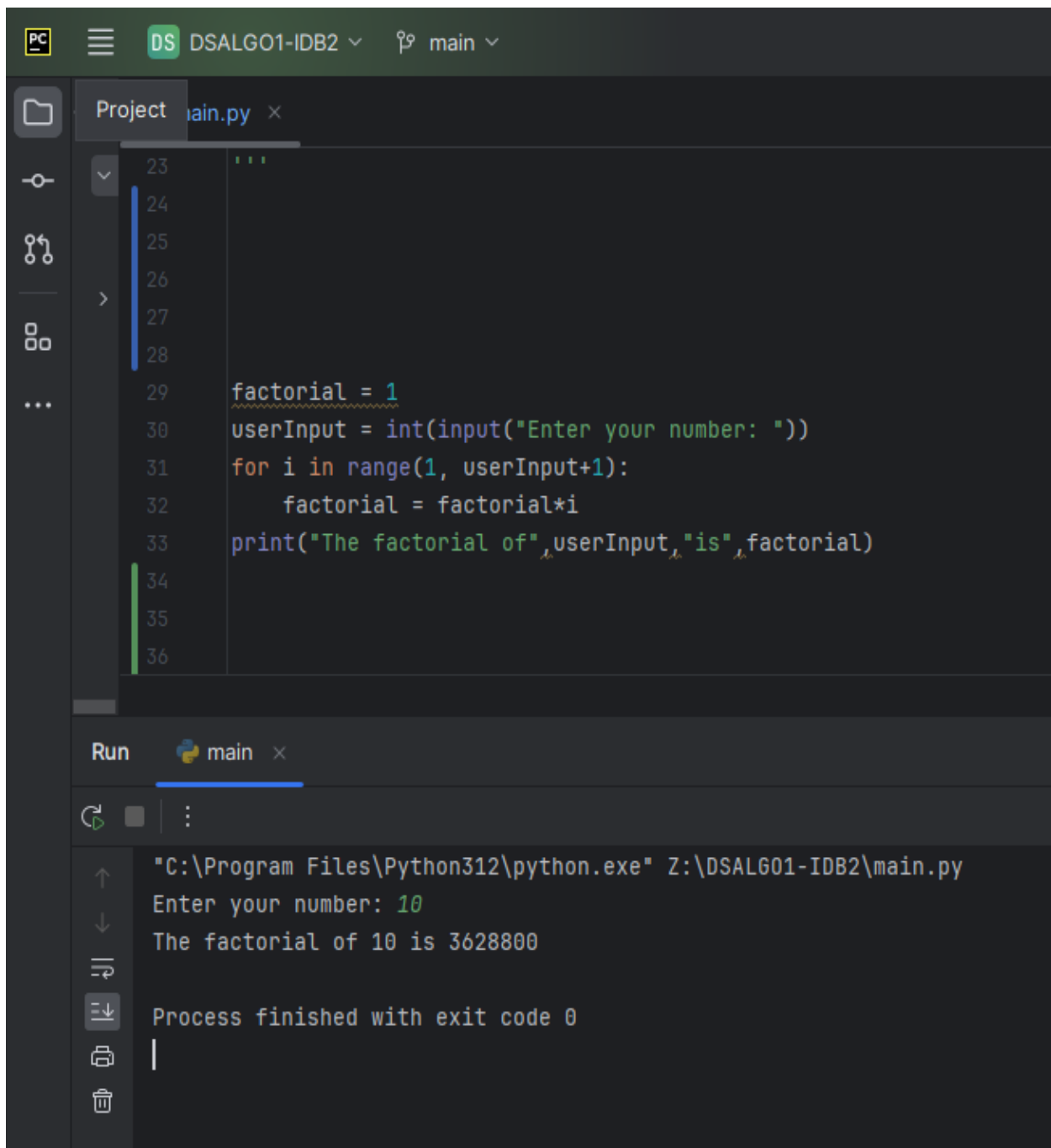
Nintendo Wii



```
PC  DS DSALG01-IDB2  main
main.py x
10  userInput2 = input("Enter a number: ")
11  sum = int(userInput) + int(userInput2)
12  print("the sum is ",sum)
13  '''
14  ~~~~~
15
16
17  import math
18  print("How much is your money?")
19  Money= float(input())
20  Wiis = 100
21  print("you could only afford",int(math.floor(Money)/Wiis), "Nintendo Wii's")
22  print("you will need an additional", Wiis - (int(Money) % int(Wiis)), "to buy another Wii's")
23

Run  main x
C:\Program Files\Python312\python.exe Z:\DSALG01-IDB2\main.py
How much is your money?
250
you could only afford 2 Nintendo Wii's
you will need an additional 50 to buy another Wii's
Process finished with exit code 0
|
```

Factorial



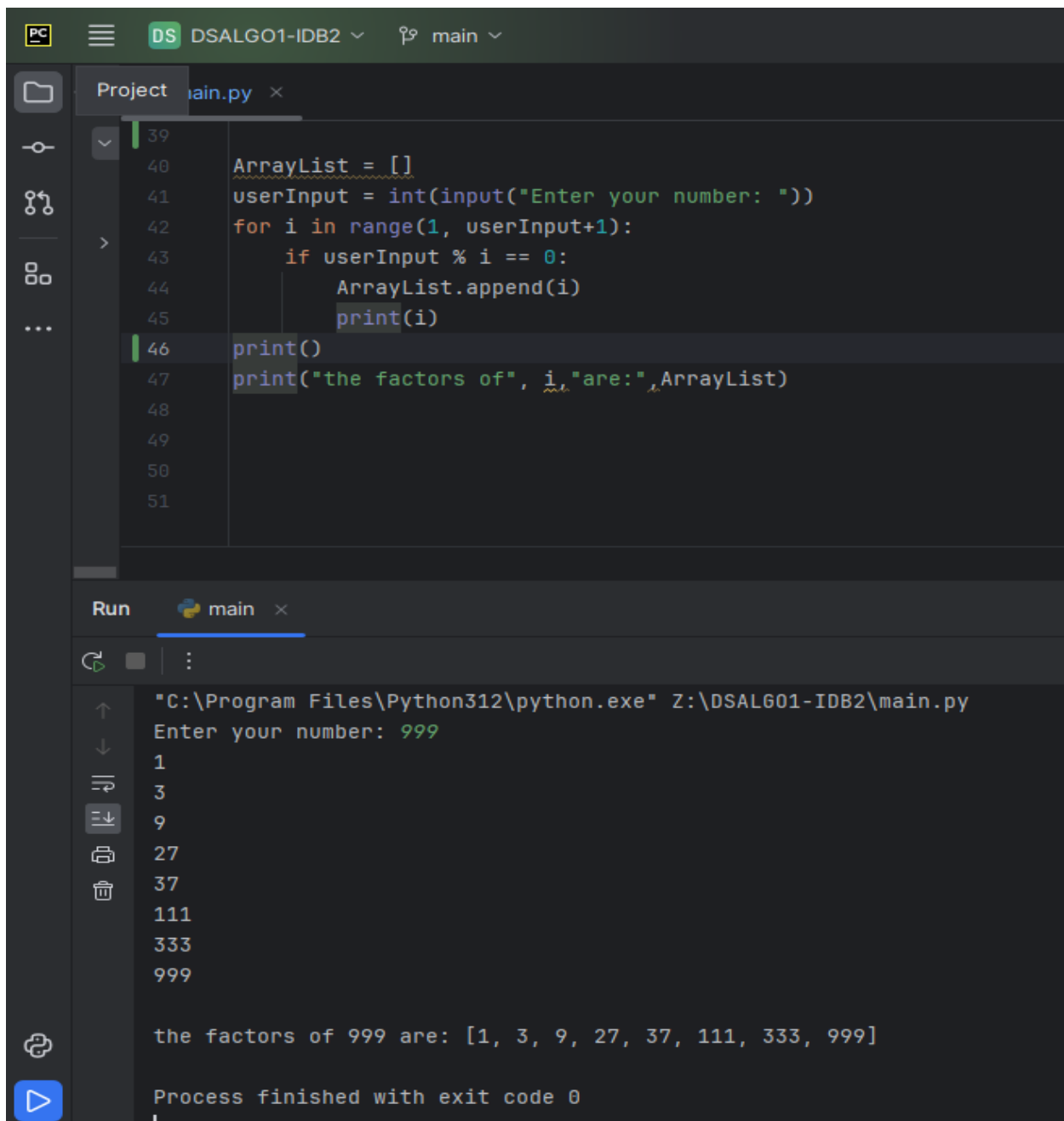
The screenshot shows a Python IDE with a project named "DSALGO1-IDB2" and a file named "main.py". The code in "main.py" calculates the factorial of a user input. The code is as follows:

```
23 ...
24
25
26
27
28
29 factorial = 1
30 userInput = int(input("Enter your number: "))
31 for i in range(1, userInput+1):
32     factorial = factorial*i
33 print("The factorial of", userInput, "is", factorial)
34
35
36
```

The "Run" tab shows the execution of the program. The output is as follows:

```
"C:\Program Files\Python312\python.exe" Z:\DSALGO1-IDB2\main.py
Enter your number: 10
The factorial of 10 is 3628800
Process finished with exit code 0
```

Formula



The screenshot shows a Python IDE with a project named 'DSALGO1-IDB2' and a file named 'main.py'. The code in 'main.py' is as follows:

```
39  
40 ArrayList = []  
41 userInput = int(input("Enter your number: "))  
42 for i in range(1, userInput+1):  
43     if userInput % i == 0:  
44         ArrayList.append(i)  
45         print(i)  
46 print()  
47 print("the factors of", i, "are:", ArrayList)  
48  
49  
50  
51
```

The 'Run' panel shows the execution of the program. The command prompt shows the following output:

```
"C:\Program Files\Python312\python.exe" Z:\DSALGO1-IDB2\main.py  
Enter your number: 999  
1  
3  
9  
27  
37  
111  
333  
999  
  
the factors of 999 are: [1, 3, 9, 27, 37, 111, 333, 999]  
  
Process finished with exit code 0
```