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ACT/C205

# CODE

Problem #1:

```
def calculate_percentage(value, total):
   return (value / total) * 100

def main():
   while True:
       value = float(input("Enter the value: "))
       total = float(input("Enter the total: "))

       percentage = calculate_percentage(value, total)
       print(f"{percentage:.2f}% of {total} is {value}")

       choice = input("Try another [y/n]? ")
       if choice.lower() != 'y':
           break

main()
```

Output:

```
Enter the value: 10.5
Enter the total: 20.55
51.09% of 20.55 is 10.5
Try another [y/n]? y
Enter the value: 3
Enter the total: 30
10.00% of 30.0 is 3.0
Try another [y/n]? n

Process finished with exit code 0
```

Problem #2:

```
add = lambda x,y : x+y
subtract = lambda x,y : x - y
multiply= lambda x,y : x  *  y
divide = lambda x,y : x/y
print("Enter Two Integers:")
int1 = int(input())
int2 = int(input())

operation = input("Enter Operation[+,-,*,/]: ")
if operation == "+":
   print("Result:",end=' ')
   print(int(add(int1,int2)))
elif operation == "-":
   print("Result:",end=' ')
   print(int(subtract(int1,int2)))
elif operation == "*":
   print("Result:",end=' ')
   print(int(multiply(int1,int2)))
elif operation == "/":
   print("Result:",end=' ')
   print(int(divide(int1,int2)))
```

Output:

```
Enter Two Integers:
1
2
Enter Operation[+,-,*,/]:
-
Result: -1

Process finished with exit code 0
```

```
Enter Two Integers:
3
4
Enter Operation[+,-,*,/]:
+
Result: 7

Process finished with exit code 0
```

```
Enter Two Integers:
9
9
Enter Operation[+,-,*,/]:
/
Result:1

Process finished with exit code 0
```