

**TASK 1:-**

```
x=10
```

```
y=5
```

```
print(x+y)
```

```
print(x-y)
```

```
print(x*y)
```

```
print(x/y)
```

```
a = 10
```

```
b = 3
```

```
print("Remainder =", a % b)
```

```
p = 10
```

```
t = 2
```

```
r = 5
```

```
si = (p * t * r) / 100
```

```
print("Simple Interest =", si)
```

```
minutes = 130
```

```
hours = minutes // 60
```

```
remaining_minutes = minutes % 60
```

```
print("Hours =", hours)
```

```
print("Minutes =", remaining_minutes)
```

```
n = 4
```

```
print("Square =", n ** 2)
```

```
print("Cube =", n ** 3)
```

```
marks = 45
```

```
if marks >= 40:
```

```
    print("Passed")
```

```
else:
```

```
    print("Failed")
```

```
age1 = 25
```

```
age2 = 30
```

```
if age1 > age2:
```

```
    print("Person 1 is older")
```

```
elif age2 > age1:
```

```
    print("Person 2 is older")
```

```
else:
```

```
    print("Both are of same age")
```

```
num = 120
```

```
if num >= 100:
```

```
    print("Number is greater than or equal to 100")
```

```
else:
```

```
    print("Number is less than 100")
```

```
num = 0
```

```
if num >= 0:
```

```
    print("Positive or Zero")
```

```
else:
```

```
    print("Negative")
```

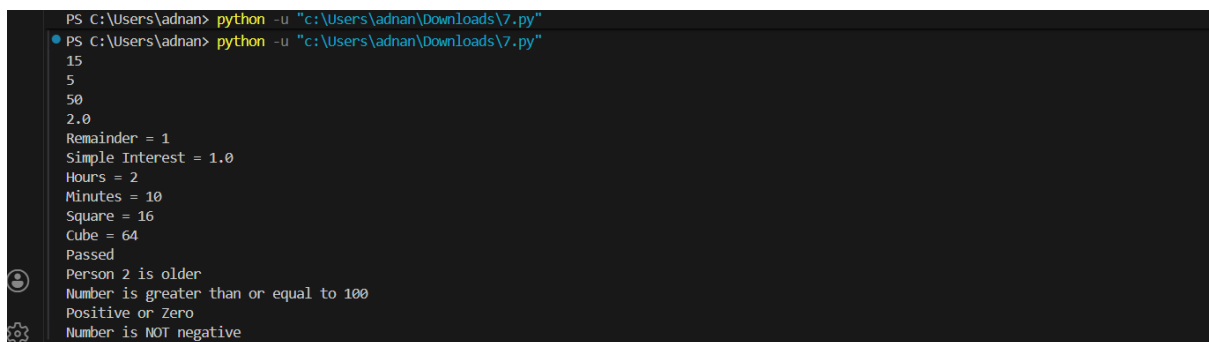
```
num = 5
```

```
if not (num < 0):
```

```
    print("Number is NOT negative")
```

```
else:
```

```
    print("Number is negative")
```



```
PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\7.py"
15
5
50
2.0
Remainder = 1
Simple Interest = 1.0
Hours = 2
Minutes = 10
Square = 16
Cube = 64
Passed
Person 2 is older
Number is greater than or equal to 100
Positive or Zero
Number is NOT negative
```

## TASK 2:-

```
a = int(input("Enter first number: "))
```

```
b = int(input("Enter second number: "))
```

```
if a < b:
```

```
print("Smallest number is", a)
```

```
else:
```

```
print("Smallest number is", b)
```

```
age = int(input("Enter age: "))
```

```
if age >= 18:
```

```
    print("Eligible to vote")
```

```
else:
```

```
    print("Not eligible to vote")
```

```
num = int(input("Enter a number: "))
```

```
if num % 2 == 0:
```

```
    print("Even number")
```

```
else:
```

```
    print("Odd number")
```

```
marks = int(input("Enter marks: "))
```

```
if marks >= 90:
```

```
    print("Grade A")
```

```
elif marks >= 75:
```

```
    print("Grade B")
```

```
elif marks >= 50:
```

```
    print("Grade C")
```

```
else:
```

```
    print("Fail")
```

```
for i in range(1, 11):
```

```
print(i)
```

```
for i in range(2, 51, 2):
```

```
    print(i)
```

```
num = int(input("Enter a number: "))
```

```
for i in range(1, 11):
```

```
    print(num, "x", i, "=", num * i)
```

```
text = input("Enter a string: ")
```

```
for ch in text:
```

```
    print(ch)
```

```
n = int(input("Enter N: "))
```

```
total = 0
```

```
for i in range(1, n + 1):
```

```
    total += i
```

```
print("Sum =", total)
```

```
text = input("Enter a string: ")
```

```
count = 0
```

```
for ch in text:
```

```
    if ch.lower() in "aeiou":
```

```
count += 1
```

```
print("Number of vowels =", count)
```

```
Enter first number: 5
Enter second number: 10
Smallest number is 5
Enter age: 17
Not eligible to vote
Enter a number: 6
Even number
Enter marks: 40
Fail
1
2
3
4
5
6
7
8
9
10
2
4
6
8
```

```
Enter a number: 7
7 x 1 = 7
50
Enter a number: 7
7 x 1 = 7
Enter a number: 7
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 4 = 28
7 x 5 = 35
```

```
g
Enter a string: good night
g
o
o
d
g
o
o
d
o
o
d
n
i
n
i
g
i
g
h
g
h
t
h
t
```

```
PS C:\Users\adnan> python -u C:\Users\adnan\Downloads\7.py
Enter a string: good day
Number of vowels = 3
PS C:\Users\adnan>
```

### TASK 3:-

```
i = 10
```

```
while i >= 1:
```

```
    print(i)
```

```
    i -= 1
```

```
num = int(input("Enter a number: "))
```

```
sum_digits = 0
```

```
while num > 0:
```

```
    digit = num % 10
```

```
    sum_digits += digit
```

```
    num //= 10
```

```
print("Sum of digits =", sum_digits)
```

```
num = int(input("Enter a number: "))
```

```
count = 0
```

```
while num > 0:
```

```
    count += 1
```

```
    num //= 10
```

```
print("Number of digits =", count)
```

```
PS C:\Users\adnan> python -u "c:\Users\adnan\Downloads\7.py"
10
9
8
7
6
5
4
3
2
1
Enter a number: 45
Sum of digits = 9
Enter a number: 567
Number of digits = 3
```