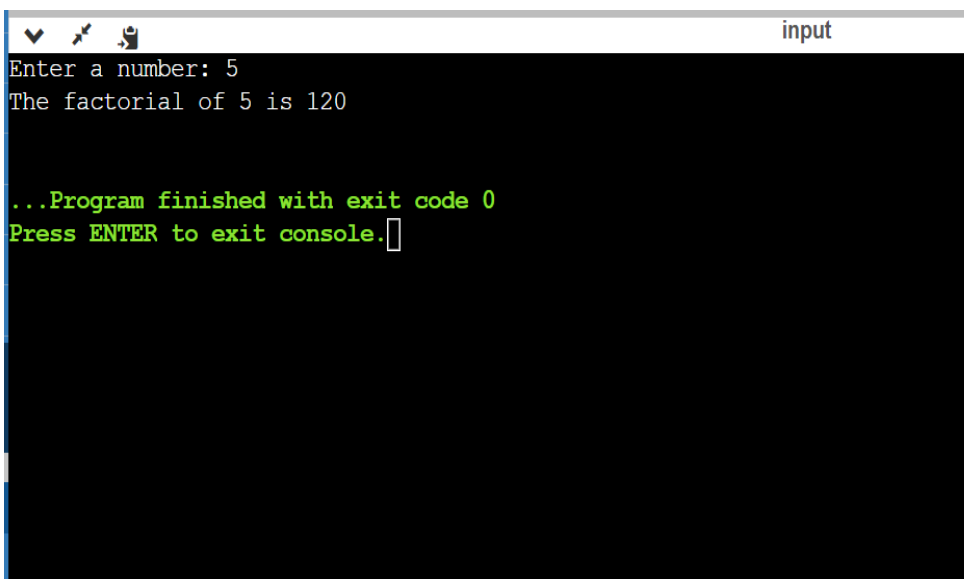# #Name : Tapas Chatterjee ,Roll no: 19

1)Write a program in Python to print the factorial of a number.

```python
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
  print(" Factorial does not exist for negative numbers")
elif num == 0:
  print("The factorial of 0 is 1")
else:
  for i in range(1,num + 1):
    factorial = factorial*i
  print("The factorial of",num,"is",factorial)
```

#Output

```
                                          input
Enter a number: 5
The factorial of 5 is 120


...Program finished with exit code 0
Press ENTER to exit console.
```
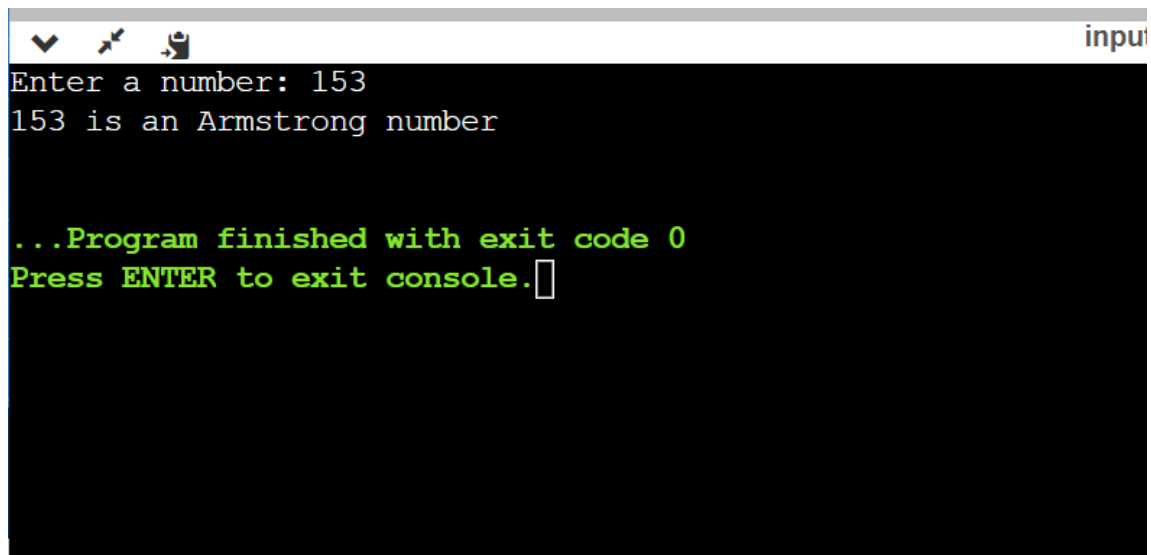
2)Write a program in Python to check whether a number is Armstrong or not.

```python
num = int(input("Enter a number: "))
sum = 0
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10

if num == sum:
    print(num,"is an Armstrong number")
else:
    print(num,"is not an Armstrong number")
```

#Output
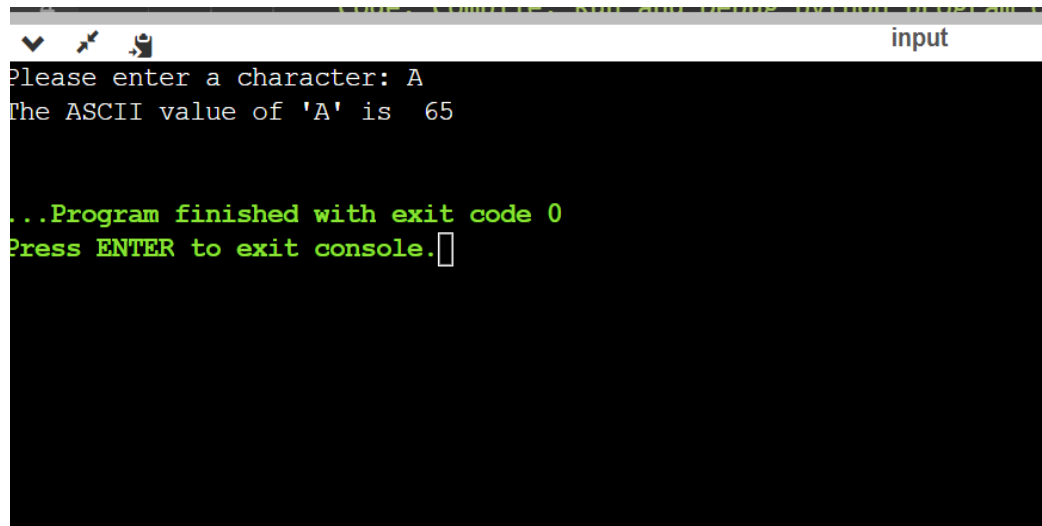
3)Write a program in Python to print ASCII value of a character.

K = input("Please enter a character: ")

print ("The ASCII value of '" + K + "' is ", ord(K))

#Output

4)Write a program in Python to find area of a circle.
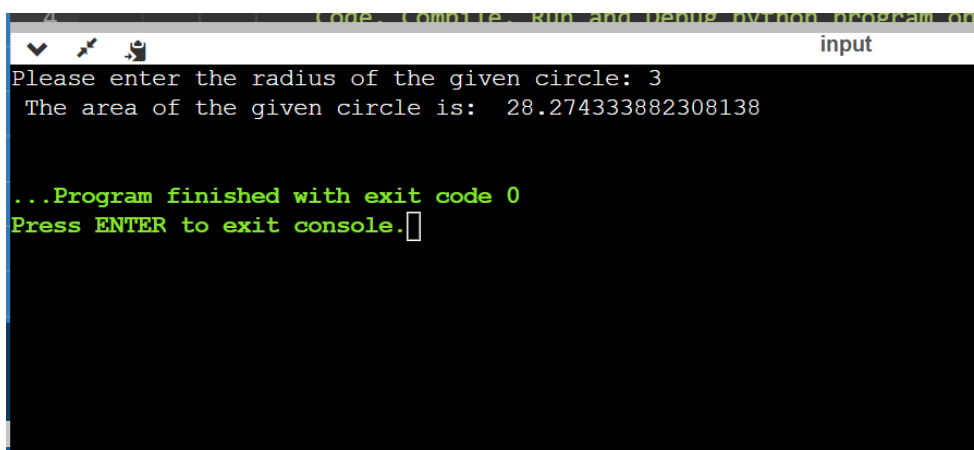
import math as M
Radius = float (input ("Please enter the radius of the given circle: "))
area_of_the_circle = M.pi* Radius * Radius
print (" The area of the given circle is: ", area_of_the_circle)
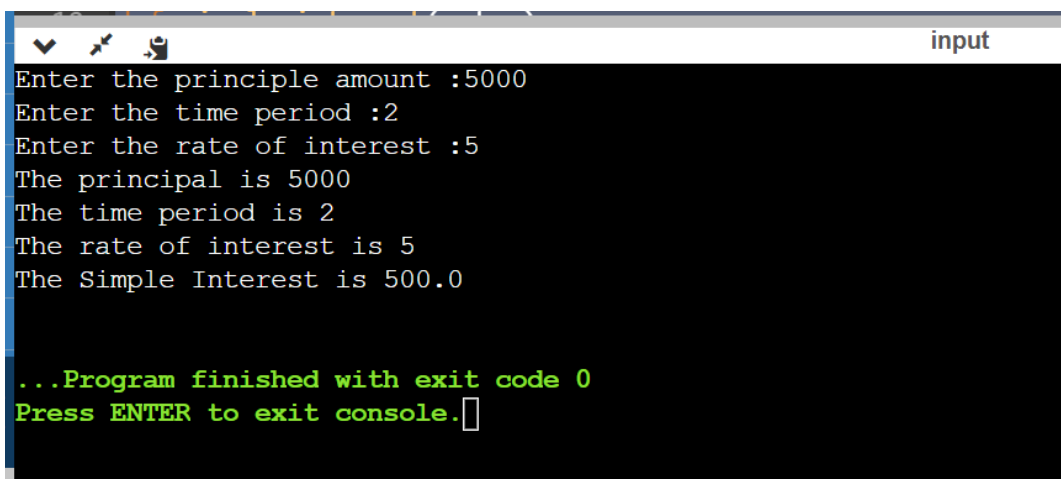
#Output

5)Write a program in Python to find simple interest.

```python
def simple_interest(p,t,r):
    print('The principal is', p)
    print('The time period is', t)
    print('The rate of interest is',r)

    si = (p * t * r)/100

    print('The Simple Interest is', si)


# Driver code
P = int(input("Enter the principle amount :"))
T = int(input("Enter the time period :"))
R = int(input("Enter the rate of interest :"))
simple_interest(P,T,R)
```
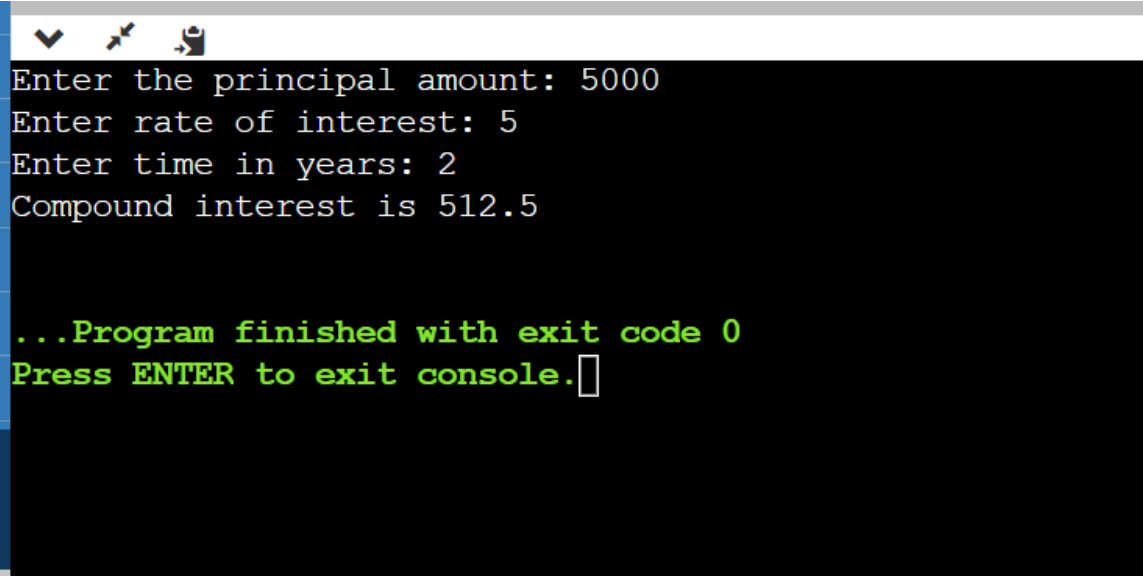
#Output

```
                                                    input
Enter the principle amount :5000
Enter the time period :2
Enter the rate of interest :5
The principal is 5000
The time period is 2
The rate of interest is 5
The Simple Interest is 500.0


...Program finished with exit code 0
Press ENTER to exit console.
```

6)Write a program in Python to find compound interest.

```python
def compound_interest(principal, rate, time):
    Amount = principal * (pow((1 + rate / 100), time))
    CI = Amount - principal
    print("Compound interest is", CI)

principal = int(input("Enter the principal amount: "))
rate = int(input("Enter rate of interest: "))
time = int(input("Enter time in years: " ))

compound_interest(principal,rate,time)
```

#Output

```
Enter the principal amount: 5000
Enter rate of interest: 5
Enter time in years: 2
Compound interest is 512.5


...Program finished with exit code 0
Press ENTER to exit console.
```