```
num = 5
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)
# Python program to add two number.
num1 = 5
num2 = 5
sum = num1 + num2
print('The sum of {0} and {1} is {2}'.format(num1,num2,sum))
# python program to check if given number is ODD or EVEN.
```

Python program to find the factorial of a number.

```
num = int(input("Enter a number:"))
if(num % 2) == 0:
  print("{0} is Even".format(num))
else:
  print("{0} is Odd".format(num))
# Python program to check if year is a leap year or not
year = 2020
if (year \% 4) == 0:
 if (year % 100) == 0:
   if (year % 400) == 0:
      print("{0} is a leap year".format(year))
   else:
      print("{0} is not a leap year".format(year))
 else:
    print("{0} is a leap year".format(year))
else:
 print("{0} is not a leap year".format(year))
# Python Program for simple interest
P = float(input("Enter the principal amount : "))
N = float(input("Enter the number of years : "))
```

```
R = float(input("Enter the rate of interest : "))
SI = (P * N * R)/100
print("Simple interest : {}".format(SI))
# Python Program for compound interest
def compound_interest(principle, rate, time):
 CI = principle * (pow((1 + rate / 100), time))
 print("Compound interest : ", CI)
# main
compound_interest(10000, 12, 5)
# Python program to print all Prime numbers in an Interval
lower = 1
upper = 100
print("Prime numbers between", lower, "and", upper, "are:")
for num in range(lower, upper + 1):
 if num > 1:
   for i in range(2, num):
      if (num % i) == 0:
        break
```

```
else:
      print(num)
# Program to check if a number is prime or not
num = int(input("Enter a number: "))
if num > 1:
 for i in range(2,num):
   if (num % i) == 0:
      print(num,"is not a prime number")
      print(i,"times",num//i,"is",num)
      break
 else:
   print(num,"is a prime number")
else:
 print(num,"is not a prime number")
# Python Program to find the ASCII value of a character
ch = input("Enter any character: ")
print("The ASCII value of char " + ch + " is: ",ord(ch))
# Python Program for Volume and Surface Area of Cube
```

```
pi=22/7
radian = float(input('Radius of sphere: '))
sur_area = 4 * pi * radian **2
volume = (4/3) * (pi * radian ** 3)
print("Surface Area is: ", sur_area)
print("Volume is: ", volume)
# Python program to check whether the entered character is vowel or consonant.
I = input("Input a letter of the alphabet: ")
if I in ('a', 'e', 'i', 'o', 'u'):
        print("%s is a vowel." % I)
elif I == 'y':
        print("Sometimes letter y stand for vowel, sometimes stand for consonant.")
else:
        print("%s is a consonant." % I)
```