```
PC
                 Command
   binary.py - C:\Users\hp\Desktop\binary.py (3.10.4)
   File Edit Format Run Options Window Help
   num=input ("Enter the number:")
   a=int(num) # num input is stored as string
le B
   b=bin(a) # to find the binary eqivalent
   b1 = b[2:]
   print (b1)
lass
```



```
pic calculator.py - C\Users\hp\Desktop\calculator.py (3.10.4)
File Edit Format Run Options Window Help

num1=int(input()) #to get the first operant

op=input() #to get the operator

num2=int(input()) #to get second operant

if (op=='+'):
    print(num1+num2)

elif(op=='-'):
    print(num1-num2)

elif(op=='+'):
    print(num1/num2)

elif(op=='+'):
    print(num1/num2)

elif(op=='+'):
    print(num1/num2)

elif(op=='+'):
    print(num1/num2)

elif(op=='+'):
    print(num1-num2)

else:
    print("Syntax Error") # if any other operator is entered out of scope this error will me generated
```



```
to get the first operant
  exp.py - C:\Users\hp\Desktop\exp.py (3.10.4)
                                                                                 X
  File Edit Format Run Options Window
                                      Help
n2||import math
  a = (3+4) *5
n2|print(a)
  n=int(input())
n2b = (n**2-n)/2
  print(b)
n2 r=int(input("Enter the valur of r:"))
  a=int(input("Enter the value of a:"))
E print(4*math.pi*(r**2)) # Math.pi() gives value of pi
  c= math.sqrt(r*(math.cos(a))**2+ r*(math.sin(b))**2) #Math.cos() returns cosine a
  print(c)
```

```
*IDLE Shell 3.10.4*
File Edit Shell Debug Options Window Help
    Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
   ===== RESTART: C:/Users/hp/AppData/Local/Programs/Python/Python310/q4.py ======
   In the range (5):
   In the range (3, 10):
    3.
    5
    6
    7
    9
   In the range (4, 13, 3):
   7
   10
   In the range (15 , 5, -2):
   15
   13
   11
   97
   In the range (5, 3):
```

```
a4.py - C:\Users\hp\Desktop\q4.py (3.10.4)
File Edit Format Run Options Window Help
print("In the range(5): ")
for i in range (5):
    print(i)
print("In the range(3, 10): ")
for i in range(3, 10):
   print(i)
print('\n')
print("In the range(4, 13, 3): ")
for i in range (4, 13, 3):
   print(i)
print('\n')
print("In the range(15 ,5, -2): ")
for i in range (15, 5, -2):
   print(i)
print("\n")
print("In the range(5, 3): ")
for i in range (5, 3):
    print(i)
print("\n")
```

```
File Edit Format Run Options Window Help

print('''This program computes molecular weight of
carbohydrates, for this we need to enter number of
atoms of hydrogen, carbon and oxygen.''')

#number of atoms cannot be negative
num_hydrogen = int(input("Enter the number of hydrogen atoms: "))
num_carbon = int(input("Enter the number of carbon atoms:"))
num_oxygen = int(input("Enter the number of oxygen atoms:"))

# now calculating the weight of elements by multiplying their number of atoms and atomic mass
weight_of_hydrogen = num_hydrogen*1.00794
weight_of_carbon = num_carbon*12.0107
weight_of_oxygen = num_oxygen*15.9994

#weight of carbohydrate would be sum of weight of hydrogen, oxygen and carbon
weight_of_carbohydrate = weight_of_hydrogen + weight_of_carbon + weight_of_oxygen
print("The weight of carbohydrate: ", weight_of_carbohydrate)
```

a5.py - C:\Users\hp\Desktop\q5.py (3.10.4)

IDLE Shell 3.10.4 X File Edit Shell Debug Options Window Help Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (... AMD64) I on win32 Type "help", "copyright", "credits" or "license()" for more information. >>> ===== RESTART: C:/Users/hp/AppData/Local/Programs/Python/Python310/g5.py ====== This program computes molecular weight of carbohydrates, for this we need to enter number of atoms of hydrogen, carbon and oxygen. Enter the number of hydrogen atoms: 6 Enter the number of carbon atoms: 2 Enter the number of oxygen atoms:1 The weight of carbohydrate: 46.06844 >>>