#1 WRITE A CODE THAT TAKES A SPEED INPUT FROM A USER IN KMS PER HOUR, CONVERTS IT INTO MILES PER HOUR, AND PRINT BOTH SPEEDS TO THE SCREEN

speed\_km = int(input("What is the speed in Km that you need converted?"))

speed\_mi = speed\_km \* .621371

print("Your speed in Km per hour you entered is = {}".format(speed\_km))

print("You speed conversion to Miles per hour is = {}".format(speed\_mi))

2. Print the calendar for this month (research impot calendar

* Import calendar
* calendar.month(theyear, themonth)

import calendar

#import the calendar so we can work with it.

c= calendar.TextCalendar(calendar.MONDAY)

current\_month=c.formatmonth(2021,1)

print(current\_month)

* Code Line # 1: We begin with "import calendar" which will import all the classes of this module.
* Code Line # 3: c= calendar.TextCalendar(calendar.SUNDAY) tells the interpreter to create a text calendar. Start of the month will be Sunday. In Python, you can format the calendar as you can change the day of the month to begin with
* Code Line # 4: str= c.formatmonth(2025,1) We are creating calendar for the year 2025, Month 1 – January
* Code Line # 5: print str will print the output.

3. Expand on the code above to get the year and month information from the user.

<https://www.guru99.com/calendar-in-python.html>

import calendar

#import the calendar so we can work with it.

#get the year and month from the user

year=int(input("What year would you like a calendar for? "))

month=int(input("what month do you want?: enter as a number, ie june = 6"))

c = calendar.TextCalendar(calendar.SUNDAY)

current\_month=c.formatmonth(year,month)

print(current\_month)

4. Write a code that takes two integers from the user and prints out the summation and multiplication.

#Write a code that takes two integers from the user and print ou the summation and multiplication

x=int(input("What is a good Integer you like? "))

y=int(input("What is a good Second Integer you like? "))

mult\_int = x\*y

add\_int = x+y

print("The multiplication of the two integers is {}".format(mult\_int))

print("The sum of the two integers is {}".format(add\_int))

5. Write a code that takes a value from the user and prints out the number, it’s square and it’s cubic value.

# Write a code that takes a value from the user and prints ou the number,

#it'ssquare and it's cubic value

x=float(input("Enter any number you would like to : "))

y=x\*\*2

c=x\*\*3

print("the original number is: {}".format(x))

print("the square of the number is: {}".format(y))

print("the cube of the number is: {}".format(c))

6. Write a code that takes a temperature input from a user in Celsius and converts it into Fahrenheit.

# Write a code that takes a Temperature input from a user in Celsius and Converts it into Fahrenheit

temp\_c = float(input("what is the current temperature in Celsius? "))

temp\_f = (temp\_c\*(9/5))+32

print("current temperature in Fahrenheit is: {}".format(temp\_f))

7. Write a code that takes the length and width of a rectangle from the user and prints the area and perimeter of the rectangle.

# Write a code that takes the Length and Width of a rectangle from the user and

#prints the area and perimeter of the rectangle.

length = float(input("What is the length of the rectangle? "))

width = float(input("What is the width of the rectangle? "))

area = length\*width

perimeter = 2\*length+2\*width

print("The area of the rectangle is {}, while the perimeter is {} .".format(area, perimeter))

8. Write a code that takes the radius of a circle from the user and prints the area, diameter, and circumference of the circle.

#Write a code that takes the radius of a circle from the user and prints the Area,

#Diameter, and circumference of the circle

radius=float(input("Please input the radius of the circle you want information for: "))

diam\_c= 2\*radius

area\_c = 3.1415\*(radius\*\*2)

circ\_c = 2\*3.1415\*radius

print("The diameter of the circle is: ",diam\_c)

print("The Area of the circle is: ",area\_c)

print("The circumference of the circle is:",circ\_c)