import math

#Task 1

x=input("Enter your name")

y=input("enter you age ")

print("Name: " ,x, "age: ",y)

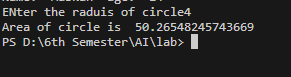


#task 2

x=input("ENter the raduis of circle")

reduis=int(x)

print("Area of circle is ", (math.pi\*(reduis\*reduis)))



#task3

a=12

b=13

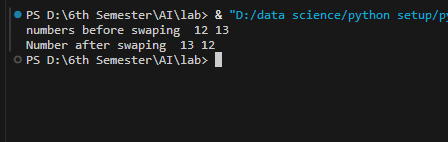
print("numbers before swaping ", a,b)

temp=a

a=b

b=temp

print("Number after swaping ",a,b)



#task4

temprature=30

print((temprature\* 9/5) + 32)

#Arthimatic operator

# a,b=10,3

# print(a+b)

# print(a-b)

# print(a\*b)

# print(a/b)

# print(a//b)

# print(a%b)

# print(a\*\*b)

# COmparasion operator

# x=y=5,10

# print("Equal to: ",x==y)

# print(" Not Equal to: ",x!=y)

# print(" Greater than: ",x>y)

# print(" Less than ",x<y)

# print(" Greater than eqaul to ",x>=y)

# print(" less than eqaul to ",x<=y)

#Logical Operator

# a,b=True,False

# print("Logical End", a and b)

# print("Logical Or", a or b)

# print("Logical Not", not b)

# x=4

# if x==1:

# print("One")

# elif x==2:

# print("Two")

# elif x==3:

# print("Three")

# else:

# print("No Match")

#Task 5

num=int(input("ENter any NUmber: "))

if(num%2==0):

print("Even")

else:

print("Odd")

#Task 6

a,b,c=1,2,3

if(a>b and a>c):

print("First Number is Greater")

elif(b>a and b>c):

print("Second Number is Greater")

else:

print("Third NUmber is greater")

# Task 7

year = int(input("Enter a year: "))

if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):

print(f"{year} is a leap year.")

else:

print(f"{year} is not a leap year.")

#Task 8

age=int(input("Enter your age please "))

if(age<13):

print("Child")

elif(age>=13 and age<20):

print("Teenager")

elif(age>=20):

print("Adult")

else:

print("Invalid Input")

# task9

# for i in range(1, 11):

# print(i, end=" ")

# Task 10

# n=int(input("Enter the range up to which you want sum: "))

# sum=0

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

# sum+=i

# print(sum)

#task11:

# n=int(input("Enter the number which you want to print the table "))

# for i in range(1,11):

# print(i,'\*',n,"=",i\*n)

#task12

# str="Muskan aaa"

# num=0

# for n in str:

# if n=='a' or n=='e' or n=='i' or n=='o' or n=='u':

# num+=1

# print("Count of vowels in the string is ", num)

# task13

# def is\_prime(n):

# if n < 2:

# return False

# for i in range(2, int(n \*\* 0.5) + 1):

# if n % i == 0:

# return False

# return True

# print("Prime numbers between 1 and 50:")

# for num in range(1, 51):

# if is\_prime(num):

# print(num, end=" ")

# task14 factorial of the given number

# num=5

# multi=1

# for i in range(1,num+1):

# multi\*=i

# print("Factorial of the given number is ",multi)

# task15

# a=input("enter 5 numbers: ")

# l=list(a)

# print(list(a))

#task 16

# l=[1,2,3,4,5]

# sum=0

# for i in range(len(l)):

# sum+=l[i]

# print("Sum of the elements in the lists are: ",sum ," And average of these elemnts is ",sum/len(l))

#task 17

# list=[4,5,3,89,22,34]

# #finding largest and smallest elements in the list

# min=list[0]

# max=list[0]

# for i in range(1,len(list)):

# if min>=list[i]:

# min=list[i]

# elif max<=list[i]:

# max=list[i]

# print(min)

# print(max)

#task 18

# Reverse a list

# def reverse\_list(input\_list):

# return input\_list[::-1]

# my\_list = [1, 2, 3, 4, 5]

# reversed\_list = reverse\_list(my\_list)

# print("Original list:", my\_list)

# print("Reversed list:", reversed\_list)

#task 19

# def count\_occurrences(input\_list, number):

# count = 0

# for num in input\_list:

# if num == number:

# count += 1

# return count

# my\_list = [1, 2, 3, 2, 4, 2, 5, 2]

# number\_to\_count = 2

# count = count\_occurrences(my\_list, number\_to\_count)

# print(f"The number {number\_to\_count} appears {count} times in the list.")

#Task20

# my\_list = [5, 3, 8, 6, 2, 7, 1, 4]

# print("List in the original form: ",my\_list)

# # Sorting the list in ascending order

# for i in range(len(my\_list)):

# for j in range(i + 1, len(my\_list)):

# if my\_list[i] > my\_list[j]:

# # Swap the elements if they are in the wrong order

# my\_list[i], my\_list[j] = my\_list[j], my\_list[i]

# print("Sorted list in ascending order:", my\_list)

#String TAsks

#task21

# str=input("ENter any string: ")

# print("length of the string is: ",len(str))

#task22

# my\_string = "Hello, World!"

# # Reversing the string without slicing

# reversed\_string = ""

# for char in my\_string:

# reversed\_string = char + reversed\_string # Prepend each character

# print("Reversed string:", reversed\_string)

#Task 23

# my\_string = "hello"

# # Removing spaces and converting to lowercase for a case-insensitive check

# cleaned\_string = my\_string.replace(" ", "").lower()

# # Checking if the string is the same forwards and backwards

# if cleaned\_string == cleaned\_string[::-1]:

# print(f'"{my\_string}" is a palindrome.')

# else:

# print(f'"{my\_string}" is not a palindrome.')

#Task 24

# Input string

# my\_string = "Hello, how are you today?"

# # Convert to lowercase for easy comparison

# my\_string = my\_string.lower()

# # Define vowels

# vowels = "aeiou"

# # Initialize counters

# word\_count = 1 if my\_string.strip() else 0 # Start with 1 word if string is not empty

# vowel\_count = 0

# consonant\_count = 0

# # Iterate through each character in the string

# for i in range(len(my\_string)):

# char = my\_string[i]

# # Count words (words are separated by spaces)

# if char == " " and my\_string[i - 1] != " ": # Avoid multiple spaces being counted

# word\_count += 1

# # Count vowels and consonants

# if char in vowels:

# vowel\_count += 1

# elif char.isalpha(): # If it's a letter but not a vowel, it's a consonant

# consonant\_count += 1

# print("Number of words:", word\_count)

# print("Number of vowels:", vowel\_count)

# print("Number of consonants:", consonant\_count)

#Task 25

# Input string

# my\_string = "Hello world, how are you?"

# print("Original String:", my\_string)

# # Convert string with manual replacement

# new\_string = ""

# for char in my\_string:

# if char == " ":

# new\_string += "\_" # Replace space with underscore

# else:

# new\_string += char # Keep other characters unchanged

# # Output the modified string

# print("Modified String:", new\_string)

#task 26:

# def square(n):

# return n\*n

# print(square(3))

# #task 27:

# def check\_even\_odd(n):

# if(n%2==0):

# print(n," is a Even Number")

# else:

# print(n," is a Odd number")

# check\_even\_odd(8)

# #Task 28

# def factorial(n):

# if n==0:

# return 1

# else:

# multi=1

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

# multi\*=i

# return multi

# print("factorial of given number is: ", factorial(0))

#Task 29:

# def check\_palindrome(str):

# cleaned\_string = str.replace(" ", "").lower()

# # Checking if the string is the same forwards and backwards

# if cleaned\_string == cleaned\_string[::-1]:

# print(f'"{str}" is a palindrome.')

# else:

# print(f'"{str}" is not a palindrome.')

# check\_palindrome("radar")

#Task 30

# def max(a,b,c):

# if a>b and a>c:

# print(a," is a greater number")

# elif b>a and b>c:

# print(b," is a greater number")

# else:

# print(c, " is a greater number")

# max(90,89,45)

#Task 31 Dictionaries

# dict={

# "Mark1": 98,

# "Mark2": 70,

# "Mark3":86,

# "Mark4":98,

# "Mark5":95,

# }

# print(dict)

# print(dict["Mark1"])

# # Task32

# dict["Mark1"]=78

# print(dict["Mark1"])

# print(dict)

# #Task 33

# maximum=(max(dict,key=dict.get))

# print(dict[maximum])

# #Task 34

# my\_string = "apple banana apple orange banana apple orange orange"

# # Convert to lowercase to avoid case-sensitive differences

# my\_string = my\_string.lower()

# # Split the string into words

# words = my\_string.split()

# # Initialize an empty dictionary to store word counts

# word\_count = {}

# for word in words:

# if word in word\_count:

# word\_count[word] += 1

# else:

# word\_count[word] = 1

# print("Word occurrences:", word\_count)