**#1) Write a program to find area of Triangal**

h=float(input('enter the value of H :'))

print(h)

b=float(input('enter the value of B :'))

print(b)

print('area of triangle:',(h\*b)/2)

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**#2) Write a program to find area of square**

a=float(input('enter the value of a :'))

print(a)

print('area of square :' ,a\*a)

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**#3) Write a program to convert celsius to fahrenheit**

c=float(input('enter the value of celsius :'))

print(c)

print('celsius to faherenhit :',(9/5 \* c) + 32)

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**#4) Write a program to convert usdollar to indian rupees**

dollar=float(input('enter dollar :'))

print(dollar)

print('convert dollar in rupees :',dollar\*82.88)

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**#5) Write a program to convert liter to mililiter**

ltr=float(input('enter litter :'))

print(ltr)

print('convert litter in mililiter :',ltr\*1000)

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**#6).enter binary octal and hexadecimal values and convert into decimal**

a=0b0110 #binary

b=0o214 #octal

c=0XD214#hexadecimal

decimal=(a,b,c)

print(decimal)

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**#7).accept one integer value from user convert it to binary,octal,hexadecimal.**

a=int(input('enter value :'))

binary=bin(a)

print(binary)

octal=oct(a)

print(octal)

hexdec=hex(a)

print(hexdec)

--------------------------------------------------------------------------------------------------------------------------------------

**#8) Accept string from the user (‘The Rajkot is a good city to leave’), and do the following operations:**

a='The Rajkot is Good city to leave'

print(a)

**#1)Display the first Character of the String using negative index**

print(a[0])

**#2)Display the first Character of the String using negative index**

print(a[:-1])

**#3)Display the 'Rajkot is Good city'.**

print(a[4:23])

**#4)Display the last Character of the String**

print(a[-1:])

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**#9). Create bytes, enter some values and display all elements.**

a=[2,4,24,1,3,5,6,9]

print(a)

b=bytes(a)

print(b)

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**#10. Create bytearray, enter some values and perform the following:**

a=[1,2,3,4,6,8,10,12]

print(a)

**# i). Replace the 3rd element with 7,**

b=bytearray(a)

b[2]=7

print(b[2])

**#ii). Display the 5th element.**

print(b[4])

--------------------------------------------------------------------------------------------------------------------------------------

**#12. Create tuple and insert values**

tup = (1,2,3,4,5,6,7,8,9,10)

print(tup)

**#i). Try to replace the 3rd element with 9,**

tup[2] = 9

print(tup[2])

**#ii). Display the 5th element.**

print(tup[4])

--------------------------------------------------------------------------------------------------------------------------------------**#13. Create a set insert some values.**

s = {1,2,3,4,5}

print(s)

**#i). Add elements to it and display,**

s.add(6)

s.add(7)

print(s)

**#ii). Remove elements from it and display.**

s.remove(4)

print(s)

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**#14. Create a set insert some values and convert it to frozenset. Try to add and remove some elements**

s = {1,2,3,4,5}

fs = frozenset(s)

print(fs)

fs.add(6)

fs.remove(3)

print(fs)

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**#15. Create an empty dictionary, Insert some Roll:Name into it.**

sdict = {}

sdict = {

1: 'Jeet',

2: 'Patel',

3: 'Milan',

4: 'Mehul',

5: 'Vishal',

6: 'Dhaval',

7: 'Rahul',

8: 'Mahaveer',

9: 'Yash',

10: 'Khan'

}

**# i). Retrieve 5th value using key**

print(sdict.get(5))

**# ii). Retrieve all roll numbers**

rno = list(sdict.keys())

print(rno)

**# iii). Retrieve all names**

nm = list(sdict.values())

print(nm)

**# iv). Change the name of the student with roll no. 7**

sdict[7] = 'Ram'

**# v). Remove roll no. 9**

sdict.pop(9)

**# vi). Display the dictionary**

print(sdict)

--------------------------------------------------------------------------------------------------------------------------------------

**#16. Create a list having names of months. i). Check whether December is in list or not, ii). Query the list using ‘not in’.**

months = ['January', 'February', 'March', 'April', 'June', 'July', 'August', 'September', 'October', 'November', 'December']

dec = "December" in months

print("Is December in the list ",dec)

notin = "May" in months

print("Is not in the list ",notin)

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**#17. Take two integer values from the user using split(), perform basic arithmetic operation on the values.**

value = input("Enter two integer values separated by space: ")

values = value.split()

num1 = int(values[0])

num2 = int(values[1])

add = num1 + num2

sub = num1 - num2

mul = num1 \* num2

div = num1 / num2

print(f"Sum: {add}")

print(f"Difference: {sub}")

print(f"Product: {mul}")

print(f"Quotient: {div}")

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