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|  | Sagar Public School, Saket Nagar, Bhopal |

Certificate

**This is to certify that Mr./Ms. \_\_\_\_\_\_\_\_\_\_ Ojas Aklecha\_\_\_\_\_ Roll Number \_\_\_\_\_\_17\_\_\_\_\_\_\_\_\_\_of Class \_\_\_\_\_\_XI ‘B’\_\_\_\_\_\_\_\_ has successfully completed his/her Practical work in Informatics Practices during the session 2019-20, strictly as per the guidelines of CBSE.**

**Date: \_\_\_\_\_\_05.02.2020\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(Principal Signature) (Internal Signature)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**(Institution Stamp) (Examiner Signature)**

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**\_\_\_\_\_\_Ojas Aklecha\_\_\_\_\_**

**Class : XI \_’B’\_**

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1. WAP in Python to calculate area of Triangle and Rectangle.

**Ans –**

**Triangle -**

**a=float(input('Enter the breadth :'))**

**b=float(input('Enter the height :'))**

**c=(a\*b)/2**

**print('Area of triangle',c)**

**Rectangle –**

**a=float(input('Enter the breadth :'))**

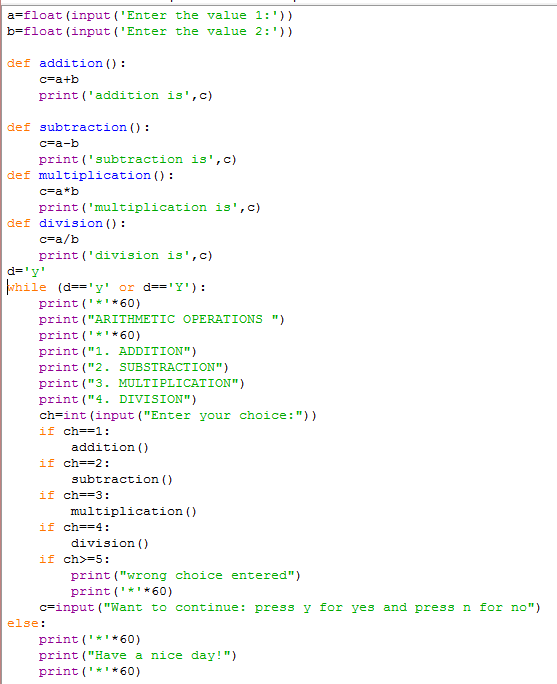
**b=float(input('Enter the height :'))**

**c=(a\*b)\*2**

**print('Area of rectangle',c)**

1. Write a Menu Driven Program to perform Arithmetic operations.

**Ans –**

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1. WAP to input a number and check it is an even number or odd number.

Ans –

**a=float(input('Enter the value 1:'))**

**if a%2==0:**

**print('It is even number')**

**else :**

**print('It is odd number')**

4. WAP to find the greatest number out of three given numbers.

Ans –

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

num3 = float(input("Enter third number: "))

if (num1 >= num2) and (num1 >= num3):

largest = num1

elif (num2 >= num1) and (num2 >= num3):

largest = num2

else:

largest = num3

print("The largest number is", largest)

5. WAP to print Factorial of a given number.

Ans –

a=int(input('Enter the number'))

b=1

for i in range(1,a+1):

b=b\*i

print(b)

6. WAP to print multiplication table of a number.

Ans –

a=int(input('Enter the value:'))

for i in range(0,11):

b=a\*i

i=i+1

print(b)

7. WAP to input a number and check it is prime or not.

Ans –

s=0

i=2

n=int(input("enter n"))

while i<=n-1:

if (n%i==0):

s=s+1

break

i=i+1

if s==0:

print("no. is prime")

else:

print("no. is not prime")

8. WAP to print Factorial of a given number.

Ans –

nterms = int(input("How many terms? "))

n1, n2 = 0, 1

count = 0

if nterms <= 0:

print("Please enter a positive integer")

elif nterms == 1:

print("Fibonacci sequence upto",nterms,":")

print(n1)

else:

print("Fibonacci sequence:")

while count < nterms:

print(n1)

nth = n1 + n2

n1 = n2

n2 = nth

count += 1

9. WAP to input a number and display sum of its digits.

Ans –

n=int(input('Input any number :'))

s=0

while n>0:

b=n%10

s=s+b

n=n//10

print('sum of the digits is ',s)

10. WAP to input a number and store its reverse in another variable.

Ans –

n=int(input("Enter number: "))

rev=0

while(n>0):

dig=n%10

rev=rev\*10+dig

n=n//10

print("Reverse of the number:",rev)

11. WAP to input a string and check it is palindrome or not.

Ans –

a=str(input("enter a word"))

l=len(a)

z=''

for i in range(l,0,-1):

z=z+a[i-1]

if z==a:

print("palindrom")

else:

print("not palindrom")

12. WAP to generate pattern.

Ans –

Pattern 1 –

def contnum(n):

num = 1

for i in range(0, n):

for j in range(0, i+1):

print(num, end=" ")

num = num + 1

print(“\r”)

n=5

contnum(n)

Pattern 2 –

for i in range(1,6):

for j in range(1,i+1):

print('\*',end='')

print()

Pattern 3 –

for i in range(6,1,-1):

for j in range(1,i):

print('\*',end='')

print()

13. WAP to input a string and then prints a string that capitalizes every other letter in the string.

Ans –

14. WAP to input a list find the minimum and maximum element in the list with its index value.

Ans –

def minimum(a, n):

minpos = a.index(min(a))

maxpos = a.index(max(a))

print "The maximum is at position", maxpos + 1

     print "The minimum is at position", minpos + 1

a = [3, 4, 1, 3, 4, 5]

minimum(a, len(a))

15. WAP to search for an element in a given list of numbers.

Ans –

def search(arr, x):

     for i in range(len(arr)):

         if arr[i] == x:

             return i

     return -1

16. WAP to sort all elements of a list in ascending order.

Ans-

numbers = [1, 3, 4, 2]

   numbers.sort()

   print(numbers)