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Subject Name :

Subject Code :

B. Tech. ____ Year ____ Semester ____

SET-A

Annexure No.: 01

Aim :- A program to Convert temperature from Farenheit to celsius and vise versa.

code :-

```
F = Float (input ("Enter F :"))
C = 5/9 * (F-32)
Print ("\n Converted to celcius:", C)
X = Float (input ("Enter c :"))
d = 9/5 * c + 32
Print ("\n Converted to farenheit :", d)
```

Output :-
```
Enter F :12
Converted to Celsiung : 11·111
Enter C : 102
Converted to farenheight : 12·0
```

Aim :- A program that calculate area and perimeter of a rectangle.

Code :-
```
l = int ( input ( "\n Enter length : " ))
b = int ( input ( "\n Enter breath : " ))
Perimeter = 2 * ( l + b )
Area = l * b
Print ( "\n perimeter of rectangle : ", perimeter )
Print ( "\n Area of rectangle : ", Area )
```

Output :-
```
Enter length : 20
Enter breath : 2
perimeter of rectangle : 44
Area of rectangle : 40
```

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Annexure No.: 03

Aim :- A program that generate a random password of a specified length.

code :-

```
P = str (input ("Enter password:"))
Print ("In length of given password is :", len(P))
```

output :- Enter password : MOHIT

  ' length of the given password : 5

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Annexure No.: 04

Aim :- A program that Calculate the average of list of number.

Code :-
```
a = Float (input ("\n Enter a :"))
b = Float (input ("\n Enter b:"))
c = Float (input ("\n Enter c:"))
avg = (a+b+c)/3
Print ("\n Average of abc :", avg)
```

Output :-
```
Enter a: 5
Enter b: 6
Enter c: 7
Average of abc: 6.0
```

<u>Aim</u> :- A Program that checks that the given year is a leap year.

<u>Code</u> :-

```
y = int (input ("\n Enter year : "))
if ( y % 4 == 0 and y % 400 != 0 or y == 0):
    print ("\n It is a leap year ")
else :
    Print ("\n It's not a leap year")
```

<u>Output</u>

```
Enter year : 2024
It is a leap year

Enter year : 2025
It is not leap year
```

Enrollment No. :

__Aim__ :- A program that Calculates the Factorial of a number.

__code__ -
```
n = int(input("Enter number:"))
F = 1
for i in range (1, n+1):
    F = F * i
Print("\n Factorial of ", n, "is :", F)
```

__output__ -
```
Enter number : 5
Factorial of 5 is : 120
```

<u>Aim</u> :- A program that checks that the given string is Palindrome .

<u>code</u> :-
```
S = str (input (" Enter string :"))
if ( S[::-1] == S):
      print ("\n string is palindrome ")
else :
      print ("\n string is not palindrome")
```

<u>output</u> :- Enter string : MOHIT
String is Palindrome

Aim :- A program that sorts a list of numbers in ascending or descending order.

Code :-

```
n = 5
1st = []
for _ in range (n):
    num = int (input ("Enter a number :"))
    1st append (num)

print (f" original list : {1st}")
1st. Sort ()
print (f" sorted list in ascending order : {1st}")
1st. Sort (reverse = True)
print (f" Sorted list in descending order : {1st}")
```

output :-
```
Enter a number : 23
Enter a number : 8
Enter a number: 19
Enter a number: 17
Enter a number: 11
Original list : [23, 8, 19, 17, 11]
Sorted list in Ascending order : [8,11,17,19,23]
Sorted list in descending order : [23, 19, 17, 11,8]
```

<u>Aim</u> :- A program that generates a multiplication table for a given number.

<u>Code</u> :-
```
n = int(input("Enter a number :"))
For i in range (1,11):
    print(f"{n} * {i} = ", n * i)
```

<u>Output</u> :- Enter a number : 10
```
10 * 1 = 10
10 * 2 = 20
10 * 3 = 30
10 * 4 = 40
10 * 5 = 50
10 * 6 = 60
10 * 7 = 70
10 * 8 = 80
10 * 9 = 90
10 * 10 = 100
```

Aim :- A program that Converts a given number from one base to Another.

Code :-
```
n = int(input("Enter a number : "))
binary = bin(n)
Octal = Oct(n)
hexadecimal = hex(n)

Print(F"{n} in binary is {binary}.")
Print(F"{n} in octal is {octal}:")
Print(F"{n} in hexadecimal is {hexadecimal}.")
```

Output :- Enter a number : 19.
    19 in binary is 0b10011.
    19 in octal 0o23.
    19 in hexadecimal IS 0x13.

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