Start coding or generate with AI.

```python
#1)-Write a program to print "Hello World".
print("Hello World")
```

⌦   Hello World

```python
#2)-Write a program to compute distance between two points taking input from the user.
d1=float(input("Enter first distance: "))
d2=float(input("Enter second distance: "))
print("The distance between the point ",d1, "and the point ", d2,"is = ",d2-d1)
```

⌦   Enter first distance: 10
     Enter second distance: 30
     The distance between the point 10.0 and the point 30.0 is = 20.0

```python
#3) Write a python Program for addition, Subtraction, multiplication, division.

n1=float(input("Enter first number: "))
n2=float(input("Enter second number: "))
print("1-Add")
print("2-Sub")
print("3-Mul")
print("4-Div")
choice=input("Choice a number to performe operation: ")
if choice == '1':
        print("The sum is: ",n1+n2)
elif choice == '2':
        print("The subtraction  is: ",n1-n2)
elif choice == '3':
        print("The multiplication is: ",n1*n2)
elif choice == '4':
        if n2 != 0:
          print("The division is: ",n1/n2)
        else:
          print("Cannot divide by zero")
else:
    print("Invalid choice ")
```

⌦   Enter first number: 12
     Enter second number: 2
     1-Add
     2-Sub
     3-Mul
     4-Div
     Choice a number to performe operation: 4
     The division is: 6.0

```python
#4) Write a python program for converting Temperature to and from Celsius and Fahrenheit.
print("1. Celsius to Fahrenheit")
print("2. Fahrenheit to Celsius")

choice = int(input("Enter choice: "))

if choice == 1:
    celsius = float(input("Enter temperature in Celsius: "))
    fahrenheit = (celsius * 9/5) + 32
    print(celsius, "°C =", fahrenheit, "°F")
```

```python
elif choice == 2:
    fahrenheit = float(input("Enter temperature in Fahrenheit: "))
    celsius = (fahrenheit - 32) * 5/9
    print(fahrenheit, "°F =", celsius, "°C")
else:
    print("Invalid choice.")
```

```
1. Celsius to Fahrenheit
2. Fahrenheit to Celsius
Enter choice: 2
Enter temperature in Fahrenheit: 108
108.0 °F = 42.22222222222222 °C
```

#5) Write a python program to Convert Decimal to Binary, Octal and Hexadecimal

```python
decimal = int(input("Enter a decimal number: "))

# Convert to Binary
binary = ""
num = decimal
while num > 0:
    binary = str(num % 2) + binary
    num = num // 2

# Convert to Octal
octal = ""
num = decimal
while num > 0:
    octal = str(num % 8) + octal
    num = num // 8

# Convert to Hexadecimal
hex_digits = "0123456789ABCDEF"
hexadecimal = ""
num = decimal
while num > 0:
    remainder = num % 16
    hexadecimal = hex_digits[remainder] + hexadecimal
    num = num // 16

print("Binary:", binary)
print("Octal:", octal)
print("Hexadecimal:", hexadecimal)
```

```
Enter a decimal number: 10
Binary: 1010
Octal: 12
Hexadecimal: A
```

```
#6) Write a Python program to swap values of Two Variables without using third variable.

a = int(input("Enter value of a: "))
b = int(input("Enter value of b: "))

print("Before swapping: a =", a, "b =", b)

# Swapping using arithmetic operations
a = a + b
b = a - b
a = a - b

print("After swapping: a =", a, "b =", b)
```

➔▼   Enter value of a: 10
       Enter value of b: 3
       Before swapping: a = 10 b = 3
       After swapping: a = 3 b = 10

```
#7) Write a python program to Find ASCII Value of Character.

char = input("Enter a character: ")

ascii_value = ord(char)

print("The ASCII value of", char, "is", ascii_value)
```

➔▼   Enter a character: P
       The ASCII value of P is 80