

Python Basic Programming Assignment -

1. Write a Python Program to Find LCM?

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```
[3]: x = int(input('Enter first number :'))
y = int(input('Enter second number :'))

for i in range(max(x,y), 1 + (x*y)):
    if i % x == i % y == 0:
        lcm = i
        break

print("LCM of", x, "and", y, "is", lcm)|
```

```
Enter first number : 15
Enter second number : 4
LCM of 15 and 4 is 60
```

2. Write a Python Program to Find HCF?

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```
[4]: ### hcf = 1 to minimum
x = int(input('Enter first number :'))
y = int(input('Enter second number :'))

for i in range(1, min(x,y)):
    if x % i == 0 and y % i == 0:
        hcf = i
        break

print("Hcf of", x, "and", y, "is", hcf)
```

```
Enter first number : 15
Enter second number : 4
Hcf of 15 and 4 is 1
```

3. Write a Python Program to Convert Decimal to Binary, Octal, and Hexadecimal?

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```
•[5]: #convert to decimal into other number systems
dec = int(input('Enter a decimal number :'))

print("The decimal value of", dec, "is:")
print(bin(dec), "in binary.")
print(oct(dec), "in octal.")
print(hex(dec), "in hexadecimal.")
```

```
Enter a decimal number : 12
The decimal value of 12 is:
0b1100 in binary.
0o14 in octal.
0xc in hexadecimal.
```

4. Write a Python Program to Find the ASCII value of a character?

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```
•[6]: # ord() function | convert a character to an integer (ASCII value)
char = input('Enter a character :')

print("The ASCII value of '" + char + "' is", ord(char))
```

```
Enter a character : p
The ASCII value of 'p' is 112
```

5. Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?

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```
[*]: a = int(input('Enter first number :'))
b = int(input('Enter second number :'))
print("Select operation.")
print("1 for Addition")
print("2 for Subtraction")
print("3 for Multiply")
print("4 for Division")

while True:
    choice = input("Enter choice(1/2/3/4): ")

    if choice in ('1', '2', '3', '4'):
        if choice == '1':
            print(a, "+", b, "=", a+b)
        elif choice == '2':
            print(a, "-", b, "=", a-b)
        elif choice == '3':
            print(a, "*", b, "=", a*b)
        else :
            print(a, "/", b, "=", a/b)
```

```
Enter first number : 2
Enter second number : 3
Select operation.
1 for Addition
2 for Subtraction
3 for Multiply
4 for Division
Enter choice(1/2/3/4): 3
2 * 3 = 6
Enter choice(1/2/3/4): 2
2 - 3 = -1
Enter choice(1/2/3/4): 
```