

Programming Assignment-5

1. Write a Python Program to Find LCM?

```
import math

def find_lcm(x, y):
    return abs(x * y) // math.gcd(x, y)

num1, num2 = 12, 15

print(f"The LCM of {num1} and {num2} is {find_lcm(num1, num2)}\n")
```

2. Write a Python Program to Find HCF?

```
import math

def find_hcf(x, y):
    return math.gcd(x, y)

num1, num2 = 12, 15

print(f"The HCF of {num1} and {num2} is {find_hcf(num1, num2)}\n")
```

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

```
import math

def convert_decimal(num):
    return bin(num), oct(num), hex(num)

num = 34

binary, octal, hexadecimal = convert_decimal(num)

print(f"The decimal number {num} in binary is {binary}, in octal is {octal}, and in hexadecimal is {hexadecimal}.\n")
```

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

```
import math

def find_ascii(char):
```

```
return ord(char)
```

```
char = 'A'
```

```
print(f"The ASCII value of '{char}' is {ord(char)}.\n")
```

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

```
import math
```

```
def simple_calculator(x, y, operation):
```

```
    if operation == '+':
```

```
        return x + y
```

```
    elif operation == '-':
```

```
        return x - y
```

```
    elif operation == '*':
```

```
        return x * y
```

```
    elif operation == '/':
```

```
        return x / y
```

```
    else:
```

```
        return "Invalid operation"
```

```
num1, num2 = 10, 5
```

```
operation = '+'
```

```
result = simple_calculator(num1, num2, operation)
```

```
print(f"The result of {num1} {operation} {num2} is {result}")
```