Assignment-6

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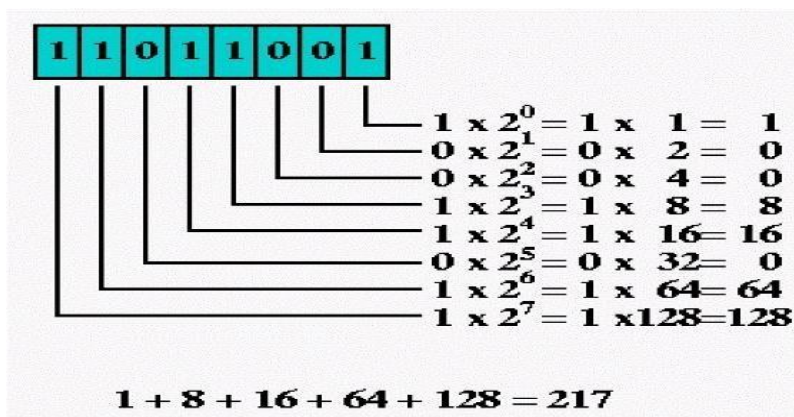1. **Program to convert binary number into decimal number**

   b_num = list(input("Input a binary number: ")) value = 0

   i in range(len(b_num)): digit =

       b_num.pop() if digit == '1':

           value = value + pow(2, i)

   print("The decimal value of the number is", value)

   Output:-

   Input a binary number: 11011001

   The decimal value of the number is 217

   Pictorial Presentation:

2. Program to generate first n number of fibonacci numbers

```python
n = int(input("Enter the value of 'n': ")) a = 0

b = 1

sum = 0

count = 1

print("Fibonacci Series: ", end = " ")

while(count <= n):

    print(sum, end = " ")

    count += 1

    a = b

    b = sum sum

    = a + b
```

Output:- Enter the value of 'n': 10

Fibonacci Series: 0 1 1 2 3 5 8 13 21 34

3. Program to display the multiplication table of a value(k)

```
num = int(input("Display multiplication table of ")) for i in
range(1, 11):
    print(num, 'x', i, '=', num*i)
```

Outut:- Display multiplication table of 10

10 x 1 = 10

10 x 2 = 20

10 x 3 = 30

10 x 4 = 40

10 x 5 = 50

10 x 6 = 60

10 x 7 = 70

10 x 8 = 80

10 x 9 = 90

10 x 10 = 100

4. Program to take 10 integers from keyboard using loop and print their average value on the screen

```python
num = int(input('How many numbers: '))

total_sum = 0

for n in range(num):

    numbers = float(input('Enter number : '))

    total_sum += numbers

avg = total_sum/num

print('Average of ', num, ' numbers is :', avg)
```

Output:- How many numbers: 10

Enter number : 2 Enter

number : 4 Enter

number : 6 Enter

number : 8 Enter

number : 10 Enter

number : 12 Enter

number : 14 Enter

number : 16 Enter

number : 18 Enter

number : 20

Average of 10 numbers is : 11.0

5. Program to print the pattern

```
k = 1

for i in range(0, 4): for j

    in range(0, k):

        print("* ", end="") k

    = k + 1

    print()
```

Output:-

```
*

* *

* * *

* * * *
```

6. Program to find H.C.F or G.C.D of two numbers

```python
def compute_hcf(x, y): if x

    > y:

        smaller = y

    else:

        smaller = x

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

        if((x % i == 0) and (y % i == 0)): hcf = i

    return hcf

num1 = 54

num2 = 24

print("The H.C.F. or G.C.D is", compute_hcf(num1, num2))
```

Output:-

The H.C.F. or G.C.D is 6

7. Program that accepts a word from user and reverse it

word = input("Input a word to reverse: ") for char

in range(len(word) - 1, -1, -1):

  print("reverse word is ",word[char], end="")

print("\n")

Output:-

Input a word to reverse: GITAM UNIVERSITY reverse word is

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8. Program to count the no.of even and odd numbers from a series of numbers

numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9,10,11,12,13,14,15)

count_odd = 0

count_even = 0 for x

in numbers:

     if not x % 2:

     count_even+=1 else:

      count_odd+=1

print("Number of even numbers :",count_even)

print("Number of odd numbers :",count_odd)

Output:-

Number of even numbers : 7 Number

of odd numbers : 8

9. **Program that prints all the numbers from 0 to 6 except 3 and 6**

```
for x in range(6):

  if (x == 3 or x==6):

     continue

    print(x,end=' ')

print("\n")
```

Output:-

0 1 2 4 5