ASSIGNMENT 1

(Answers)

Q-1)

4 2 1

1- (5)----> ① ①

16 8 4 2 1

2- (31)----> ① ① ① ①

64 32 16 8 4 2 1

3-(112)---> ① ① ① ① ① ①

128 64 32 16 8 4 2 1

4- (255)---> ① ① ① ① ① ① ①

Q-2)

1- (11110001) ---> 1*128 = 128

1*64 = 64

1*32 = 32

1*16 = 16

1*1 = 1

= 241

Q-3)

1- (Hello) ---> From "ASCII" Table :-

H e l l o 72 101 108 108 111

From Decimal to Binary :-

72---> 1001000

101---> 1100101

108---> 1101100

111---> 1101111

Then:-

Hello ---> 1001000 1100101 1101100 1101100 1101111

2- (Python) ---> From "ASCII" Table :-

P y t h o n 80 121 116 104 111 110

From Decimal to Binary :-

80---> 1010000

121---> 1111001

116---> 1110100

104---> 1101000

```
111---> 1101111
110---> 1101110
```

Then:-

Python ---> 1010000 1111001 1110100 1101000 1101111 1101110

Q-4)

From Binary to Decimal :-

```
1-(01011001)--->
                                     (Y)
                      89
2-(01101111)--->
                                     (o)
                      111
3-(1110101) ---->
                                     (u)
                      117
4- (01000100) --->
                      68
                                     (D)
5- (01101001) --->
                      105
                                     (i)
6- (1100100) ---->
                      100
                                     (d)
7- (01000111) --->
                                     (G)
                      71
8- (01101111) --->
                                    (o)
                     111
9-(1101111) ---->
                                     (o)
                     111
10- (1100100) --->
                                     (d)
                     100
11- (1001010) --->
                                     (J)
                      74
12- (01101111) -->
                      111
                                     (o)
13- (1100010) --->
                                     (b)
                      98
```

Then the text is :-

YouDidGoodJob