Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and electrical engineering

5th , Network Programming : Homework No1

الجمهورية العربية السورية

اللاذقية ـ جامعــة تشريـــن

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة1 برمجة شبكات

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الرقم الجامعي: 1962

السؤال الأول:

A-

```
# السؤال الاول الطلب A

L1=['HTTP','HTTPS','FTP','DNS']
L2=[80,443,20,53]
d=dict()
for i in range(len(L1)):
    d[L1[i]]=L2[i]
print(d)
```

```
{'HTTP': 80, 'HTTPS': 443, 'FTP': 20, 'DNS': 53}
```

B-

```
In [2]: #B
```

```
In [3]: def func(n):
            for i in range(2,n):
                if n%i==0:
                    return False
            return True
        L=[x for x in range(1,1000) if func(x)]
        print(L)
```

```
[1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 12
7, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257, 263,
269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 42
1, 431, 433, 439, 443, 449, 457, 461, 463, 467, 479, 487, 491, 499, 503, 509, 521, 523, 541, 547, 557, 563, 569, 571, 577, 587,
593, 599, 601, 607, 613, 617, 619, 631, 641, 643, 647, 653, 659, 661, 673, 677, 683, 691, 701, 709, 719, 727, 733, 739, 743, 75
1, 757, 761, 769, 773, 787, 797, 809, 811, 821, 823, 827, 829, 839, 853, 857, 859, 863, 877, 881, 883, 887, 907, 911, 919, 929,
937, 941, 947, 953, 967, 971, 977, 983, 991, 997]
```

C-

```python
In [4]: #C
```

```python
In [5]: L=['Network','Math','Programming','Physics','Music']
        for i in range(len(L)):
            if L[i].startswith('Ph'):
                print(L[i])
```

```
Physics
```

D-

```python
In [6]: #D
```

```python
In [7]: d={k:k+1 for k in range(1,11)}
        print(d)
```

```
{1: 2, 2: 3, 3: 4, 4: 5, 5: 6, 6: 7, 7: 8, 8: 9, 9: 10, 10: 11}
```

السؤال الثاني:

```
In [8]: #السؤال الثاني
```

```
In [9]: bin_num = input("enter an binary number: ")
        t=0
        for i in bin_num:
            if i =='0' or i=='1':
                pass
            else:
                t+=1
                print('error')
                break
        if t==0:
            deci_num = 0
            for i in range(len(bin_num)):
                digit = int(bin_num[i])
                deci_num += digit * 2**(len(bin_num)-i-1)
            print(deci_num)
```
```
enter an binary number: 1010
10
```

السؤال الثالث:

```
In [10]: #السؤال الثالث
```

```
In [1]: import json
        infile='1.json'
        infile=open(infile,'r')
        num=0
        u=input('enter your name: ')
        d=dict()
        dic=json.load(infile)
        infile.close()
        for k,v in dic.items():
            print(k)
            a=input()
            if a == v:
                num+=1
                d[k]=v
        d[u]=num
        print(d)
        outfile='2.json'
        outfile=open(outfile,'w')
        json.dump(d,outfile)
        outfile.close()
```

```
enter your name: Majd
1+1
2
2+2
4
3+3
6
4+4
8
5+5
9
6+6
12
7+7
14
{'1+1': '2', '2+2': '4', '3+3': '6', '4+4': '8', '6+6': '12', '7+7': '14', 'Majd': 6}
```