



Homework # 8

**01286121 Computer Programming
Software Engineering Program,
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By

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```
1 ] inp1 = int(input("Input Integer: "))
out1 = str()
if inp1 == 0:
    print("It's zero")
    quit
elif inp1 < 0:
    print("It's negative")
    quit
else:
    while inp1 >= 1:
        out1 = str(inp1%2) + out1[0:]
        inp1 = inp1//2
    print(f"Your binary number is: {out1}")
```

```
inp2 = str(input("Input Binary: "))
sum = 0
count1 = 1
check = inp2
while len(check) > 0:
    if check[-1] in '01':
        check = str(check[0:len(check)-1])
    else:
        break
if len(check) > 0:
    print("Not a binary number")
    quit
elif inp2[0] == '-':
    print("It is negative")
    quit
elif inp2 == "0":
```

```
print("It is zero")
quit
else:
    for i in inp2:
        if i not in "01":
            quit
        else:
            continue
while count1 <= len(inp2):
    sum += 2**((count1-1) * int(inp2[-count1]))
    count1 += 1
print(f"Your number is: {sum}")
```

```
Input Integer: 1
Your binary number is: 1
Input Binary: 1011
Your number is: 11
PS C:\Users\zave1\Desktop\Works\year1\Python> 
```

```

2]
inp = str(input("Enter some text: "))
print("-- Caracter Frequency Table -")
c = []
for i in inp:
    count = 0
    for j in inp:
        if i == j:
            count += 1
        else:
            continue
    per = round((count / len(inp)) * 100, 2)
    if i in c:
        continue
    else:
        if per >= 10:
            print(f'{i} {per}%')
        else:
            print(f'{i} {per}%')
    c.append(i)

```

```

Enter some text: turtle
-- Caracter Frequency Table -
t    33.33%
u    16.67%
r    16.67%
l    16.67%
e    16.67%

```

```
PS C:\Users\zave1\Desktop\Works\year1\Python>
```

3]

```
import turtle
```

```
def draw_chart(n, tx):
```

```
    for i in range(2):
```

```
        t2.fd(10)
```

```
        t2.left(90)
```

```
        t2.fd(20*n)
```

```
        t2.left(90)
```

```
    t2.right(90)
```

```
    t2.penup()
```

```
    t2.fd(20)
```

```
    t2.left(90)
```

```
    t2.write(tx, align="left", font=("Arial", 12, "normal"))
```

```
    t2.fd(10)
```

```
    t2.left(90)
```

```
    t2.fd(20)
```

```
    t2.right(90)
```

```
    t2.pendown()
```

```
    t2.fd(20)
```

```
inp = str(input("Enter some text: "))
```

```
ls = []
```

```
co = []
```

```
for i in inp:
```

```
    count = 0
```

```
    for j in inp:
```

```
        if i == j:
```

```
            count += 1
```

```
    else:
```

```

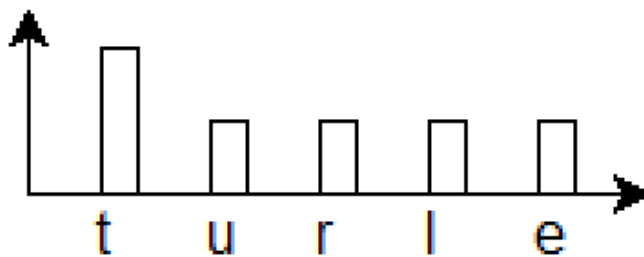
        continue
    if i in ls:
        continue
    else:
        ls.append(i)
        co.append(count)

t1 = turtle.Turtle()
t2 = turtle.Turtle()

t1.left(90)
t1.fd((max(co) * 20) + 10)
t2.fd(20)
for i in range(len(ls)):
    draw_chart(co[i],ls[i])

turtle.done()

```



```
4] inp = str(input("Enter the first 9 digit of an ISBN-10 as a string: "))  
  
num = 0  
  
for i in range(len(inp)):  
    num += int(inp[i]) * (i+1)  
  
checksum = num%11  
  
if checksum == 10:  
    checksum = 'X'  
  
print(f"Your ISBN-10 number is {inp}"+f"{checksum}")
```

```
Enter the first 9 digit of an ISBN-10 as a string: 101101101  
Your ISBN-10 number is 1011011018  
PS C:\Users\zave1\Desktop\Works\year1\Python> █
```