

ข้อ 1

```
main.py x
1 #ข้อ1
2 r = int(input("Enter interest rate: "))
3 m = [10000, 15000, 20000, 25000, 30000, 35000, 40000]
4 y = [1, 2, 3, 4]
5 total = []
6 for i in range(len(y)):
7     for a in range(len(m)):
8         sum = int(m[a]*((1+r/100)**int(y[i])))
9         total.append('%.2f'%sum)
10
11 print(f"year      1      2      3      4")
12 for i in range(7):
13     print(f"{m[i]}|{total[i]}|{total[i+7]}|{total[i+14]}|{total[i+21]}|")
```

Console Shell

Enter interest rate: 5

year	1	2	3	4
10000	10500.00	11025.00	11576.25	12155.06
15000	15750.00	16537.50	17364.38	18232.59
20000	21000.00	22050.00	23152.50	24310.13
25000	26250.00	27562.50	28940.63	30387.66
30000	31500.00	33075.00	34728.75	36465.19
35000	36750.00	38587.50	40516.88	42542.72
40000	42000.00	44100.00	46305.00	48620.25

ข้อ 2

```
main.py x
1 #ข้อ2
2 time_in = int(input("Enter TimeIn: "))
3 time_minute_in = int(input("Enter Time Minute In: "))
4 time_out = int(input("Enter Time Out: "))
5 time_minute_out = int(input("Enter Time Minute Out: "))
6 In = (time_in*60)+time_minute_in
7 Out = (time_out*60)+time_minute_out
8 summin = Out-In
9 if In <= 15:
10     print("Free")
11 elif summin > 15 and summin <= 180:
12     cost = (summin // 60)+1
13     if summin % 60 == 0:
14         cost = (summin // 60)
15     print("Total:",cost * 10,"Baht")
16 elif summin > 180 and summin <= 360:
17     sum = summin - 180
18     cost = (summin // 60)+1
19     if summin % 60 == 0:
20         cost = (summin // 60)
21     print("Total:",(cost*20)+30,"Baht")
22 elif summin >= 360:
23     print("Total:",200,"Baht")
24
```

Console Shell

Enter TimeIn: 7
Enter Time Minute In: 0
Enter Time Out: 7
Enter Time Minute Out: 16
Total: 10 Baht

ข้อ 3

```
main.py x
1 #ข้อ3
2 list = [2,3,5,7,11,13,17,19]
3 sum = 1
4 for i in range(8):
5     n = list[i]
6     a = 1
7     while True:
8         if(n**a)>20:
9             sum *= n**(a-1)
10            break
11            a += 1
12 print("=",sum)
```

Console Shell

= 232792560

ข้อ 4

```
main.py x
1  #ข้อ4
2  list = []
3  num = 600851475143
4  sum = 2
5  while True:
6      if (num % sum) == 0:
7          list.append(sum)
8          num = num / sum
9      if num == 1:
10         break
11     sum += 1
12 print(list)
13
```

Console Shell

[71, 839, 1471, 6857]

ข้อ 5

```
main.py x
1  #ข้อ5
2  def isprime(num):
3      for i in range(2,num):
4          if num % i == 0:
5              return False
6      return True
7  list = []
8  count = 0
9  i = 2
10 while True:
11     if isprime(i):
12         list.append(i)
13         count += 1
14     if count >= 1001:
15         list = list[-1:]
16         break
17     i += 1
18 print("Prime Number 1001 =",*list,sep=" ")
19
```

Console Shell

Prime Number 1001 = 7927

ข้อ 6

```
main.py x
1  #ข้อ6
2  a = int(input("Enter input: "))
3  sum_o_s = 0
4  s_o_sum = 0
5  for i in range(1,a+1):
6      sum_o_s += i**2
7      s_o_sum += i
8      b = s_o_sum**2
9      c = b - sum_o_s
10     print(f'{b}-{sum_o_s} = {c}')
11
```

Console Shell

Enter input: 10
1-1 = 0
9-5 = 4
36-14 = 22
100-30 = 70
225-55 = 170
441-91 = 350
784-140 = 644
1296-204 = 1092
2025-285 = 1740
3025-385 = 2640

ข้อ 7

```
main.py x
1 #ข้อ 7
2 num =
  '7316717653133062491922511967442657474235534919493496983520312774506326239
  57831801698480186947885184385861560789112949495459501737958331952853208805
  51112540698747158523863050715693290963295227443043557668966489504452445231
  61731856403098711121722383113622298934233803081353362766142828064444866452
  38749303589072962904915604407723907138105158593079608667017242712188399879
  79087922749219016997208880937766572733300105336788122023542180975125454059
  47522435258490771167055601360483958644670632441572215539753697817977846174
  06495514929086256932197846862248283972241375657056057490261407972968652414
  53510047482166370484403199890008895243450658541227588666881164271714799244
  42928230863465674813919123162824586178664583591245665294765456828489128831
  4260769004224219022671055626321111093705442175069416589604080719840385096
  24554443629812309878799272442849091888458015616609791913387549920052406368
  99125607176060588611646710940507754100225698315520005593572972571636269561
  882670428252483600823257530420752963450'
3 a = 0
4 str = ''
5 for i in range (len(num)-8):
6     n = num[i:i+8]
7     sum = 1
8     for i in range(8):
9         sum *= int(n[i])
10    if sum>=a:
11        a = sum
12        str+=n
13 print("เลขแปดตัวที่ติดกัน=",str,"ผลคูณที่มากที่สุด=",a)
```

Console Shell

เลขแปดตัวที่ติดกัน= 88399879 ผลคูณที่มากที่สุด= 7838208

ข้อ 8

```
main.py x
1 #ข้อ 8
2 Num_In = [int(g) for g in input("Enter 10 Number: ").split()]
3 list = []
4 list1 = []
5 for i in range(0,len(Num_In)):
6     if Num_In[i] == 0:
7         list.append(Num_In[i])
8     for i in range(0,len(Num_In)):
9         if Num_In[i] != 0:
10            list1.append(Num_In[i])
11 Logic = True
12 while Logic:
13     Logic1 = False
14     for i in range(0,len(list1)):
15         if i + 1 > len(list1)-1:
16             break
17         elif list1[i] > list1[i+1]:
18             list1[i],list1[i+1] = list1[i+1],list1[i]
19             Logic1 = True
20     Logic = Logic1
21 for i in list:
22     list1.insert(1,0)
23 print("คำตอบ: ",*list1,sep="")
24
```

Console Shell

Enter 10 Number: 3 0 8 1 3 3

คำตอบ: 103338

ข้อ 9

```
main.py x
1  #ข้อ 9
2  num = 0
3  for i in range(100,1000):
4      for g in range(100,1000):
5          n = i*g
6          nStr = str(n)
7          if nStr == nStr[::-1]:
8              if n >= num:
9                  num = n
10 print("Max Palindome Number =",num)
```

Console Shell

Max Palindome Number = 906609