



M.KUMARASAMY
COLLEGE OF ENGINEERING

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Thalavapalayam, Karur, Tamilnadu.



Department of Computer Science and Engineering

18CSE028JT- Python Programming

Batch: 2019-23 Sem: 5 Year/Sec: III -B

ASSIGNMENT I

NAME : MANJU S

REG.NO:19BCS4069

QUESTION : 1

Create a program that accepts 8 digit inputs and check if it's even display "I am fine" if it's odd display "You are Fine" if it's prime display "Everyone Fine" use Nested Conditionals.

CODE:

```
print("Name: Manju S")
print("Reg No:19BCS4069")
x = int(input())
if(x%2==0):
    print("You are Fine")
else:
    print("I am fine")
flag = True
if(x>1):
    for i in range(2, x):
        if(x%i == 0):
            flag = False
            break
if flag:
    print("Everyone Fine")
```

OUTPUT:

```
main.py
1 print("Name: Manju S")
2 print("Reg No:19BCS4069")
3 x = int(input())
4 if(x%2==0):
5     print("You are Fine")
6 else:
7     print("I am fine")
8 flag = True
9 if(x>1):
10     for i in range(2, x):
11         if(x%i == 0):
12             flag = False
13             break
14 if flag:
15     print("Everyone Fine")
16
17
```

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```
Name: Manju S
Reg No:19BCS4069
36854639
I am fine
Everyone Fine

...Program finished with exit code 0
Press ENTER to exit console.
```

QUESTION: 2

Accept mobile number as input and find the total of digits until reaches single digit if it's square root then print display as "square root" else display "Not a square root" use for Loop

CODE:

```
print("Name: Manju S")
print("Reg No:19BCS4069")
import math
def check (num):
    s = 0
    for i in num:
        s += int(i)
    count = 0
    for i in str(s):
        count += 1
    if count == 1:
        print(s)
        root = math.sqrt(s)
        if int(root+0.5)**2 == s:
            print("square root")
        else:
            print("Not a square root")
    else:
        count = 0
        check(str(s))
num = input("Enter a phone number:")
check(num)
```

OUTPUT:

```
1 print("Name: Manju S")
2 print("Reg No:19BCS4069")
3 import math
4 def check (num):
5     s = 0
6     for i in num:
7         s += int(i)
8     count = 0
9     for i in str(s):
10        count += 1
11    if count == 1:
12        print(s)
13        root = math.sqrt(s)
14        if int(root+0.5)**2 == s:
15            print("square root")
16        else:
17            print("Not a square root")
18    else:
19        count = 0
20        check(str(s))
21 num = input("Enter a phone number:")
22 check(num)
23
```

Reg No:19BCS4069
Enter a phone number:3648373904
2
Not a square root

QUESTION: 3

Consider the cost of the computer suggest configuration within price Processor: i3=5000 i5=7000 i7=9000; RAM: 4GB=1500, 6GB=2000, 8GB=2500; HDD: 500GB=2500, 1TB=3500

CODE:

```
print("Name: Manju S")
print("Reg No:19BCS4069")
Processor = input()
RAM = input()
HDD = input()
if(Processor=='i3'):
    PriceOfComputer = 5000
elif(Processor=='i5'):
    PriceOfComputer = 7000
elif(Processor=='i7'):
    PriceOfComputer = 9000
else:
    print("Processor is Invalid")
if(RAM=='4'):
    PriceOfComputer = PriceOfComputer + 1500
elif(RAM=='6'):
    PriceOfComputer = PriceOfComputer + 2000
elif(RAM=='8'):
    PriceOfComputer = PriceOfComputer + 2500
else:
    print("RAM is Invalid")
if(HDD=='500'):
    PriceOfComputer = PriceOfComputer +2500
```

```
elif(HDD=='1'):
    PriceOfComputer = PriceOfComputer + 3500
else:
    print("HDD is Invalid")
print(PriceOfComputer)
```

OUTPUT:

```
1 print("Name: Manju S")
2 print("Reg No:19BCS4069")
3 Processor = input()
4 RAM = input()
5 HDD = input()
6 if(Processor=='i3'):
7     PriceOfComputer = 5000
8 elif(Processor=='i5'):
9     PriceOfComputer = 7000
10 elif(Processor=='i7'):
11     PriceOfComputer = 9000
12 else:
13     print("Processor is Invalid")
14 if(RAM=='4'):
15     PriceOfComputer = PriceOfComputer + 1500
16 elif(RAM=='6'):
17     PriceOfComputer = PriceOfComputer + 2000
18 elif(RAM=='8'):
19     PriceOfComputer = PriceOfComputer + 2500
20 else:
21     print("RAM is Invalid")
22 if(HDD=='500'):
23     PriceOfComputer = PriceOfComputer +2500
24 elif(HDD=='1'):
25     PriceOfComputer = PriceOfComputer + 3500
26 else:
27     print("HDD is Invalid")
28 print(PriceOfComputer)
29
```

```
Name: Manju S
Reg No:19BCS4069
i5
6
500
11500

...Program finished with exit code 0
Press ENTER to exit console.
```

QUESTION: 4

Calculate the cost of trip by the following criteria. Car type: 7 Seater SUV {Petrol:12Rs per KM, Maintenance: 3 Rs per KM}, SUV {Petrol:10Rs per KM, Maintenance: 2 Rs per KM}, SUDO SUV {Petrol:8 Rs per KM, Maintenance: 1 Rs per KM}

CODE:

```
print("Name: Manju S")
print("Reg no:19BCS4069")
TypeOfCar = input()
NoOfKm= int(input())
if(TypeOfCar=='7'):
    petrolCost = NoOfKm * 12
    Maintenance= NoOfKm * 3
    Cost = petrolCost+Maintenance
elif(TypeOfCar=='SUV'):
    petrolCost = NoOfKm * 10
    Maintenance = NoOfKm * 2
    Cost = petrolCost + Maintenance
elif(TypeOfCar=='SUDO SUV'):
    petrolCost = NoOfKm * 8
    Maintenance = NoOfKm * 1
    Cost = petrolCost + Maintenance
else:
    print("Please Select Correct Car")
print(Cost)
```

OUTPUT:

```
main.py
1 print("Name: Manju S")
2 print("Reg no:19BCS4069")
3 TypeOfCar = input()
4 NoOfKm= int(input())
5 if(TypeOfCar=='7'):
6     petrolCost = NoOfKm * 12
7     Maintenance= NoOfKm * 3
8     Cost = petrolCost+Maintenance
9 elif(TypeOfCar=='SUV'):
10    petrolCost = NoOfKm * 10
11    Maintenance = NoOfKm * 2
12    Cost = petrolCost + Maintenance
13 elif(TypeOfCar=='SUDO SUV'):
14    petrolCost = NoOfKm * 8
15    Maintenance = NoOfKm * 1
16    Cost = petrolCost + Maintenance
17 else:
18    print("Please Select Correct Car")
19 print(Cost)
20
```

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```
Name: Manju S
Reg no:19BCS4069
SUV
4
48

...Program finished with exit code 0
Press ENTER to exit console.
```


QUESTION: 5

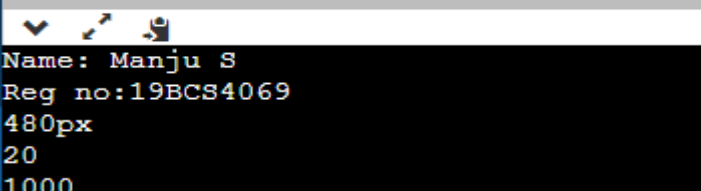
Find the net usage if video is 480px & per frame 2kb, if 720px & per frame 10kb, if 1080px & per frame 25kb. Get duration and display net usage.

CODE:

```
print("Name: Manju S")
print("Reg no:19BCS4069")
Frame = input()
Duration = int(input())
if(Frame=='480px'):
    netUseInSec = 50 * Duration
elif(Frame=='720px'):
    netUseInSec = 250 * Duration
elif(Frame=='1080px'):
    netUseInSec = 625 * Duration
else:
    print("Not Valide")
print(netUseInSec)
```

OUTPUT:

```
1 print("Name: Manju S")
2 print("Reg no:19BCS4069")
3 Frame = input()
4 Duration = int(input())
5 if(Frame=='480px'):
6     netUseInSec = 50 * Duration
7 elif(Frame=='720px'):
8     netUseInSec = 250 * Duration
9 elif(Frame=='1080px'):
10    netUseInSec = 625 * Duration
11 else:
12    print("Not Valide")
13 print(netUseInSec)
14
15
```



```
Name: Manju S
Reg no:19BCS4069
480px
20
1000
```

