M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
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ISO 9001:2015 Certified Institution
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

```
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")
```

```
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:

```
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)
```

```
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:

```
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)
```

```
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

```
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)

```

```
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: