```
#Basic menu structured python function

'''def mainMenu():
    print("1. Do something good")
    print("2. Do something bad")
    print("3. Quit")
    selection=int(input("Enter the choice: "))
    if selection==1:
        good()
    elif selection==2:
        bad()
    elif selection==3:
        exit
    else:
        print("Invalid Choice. Enter 1-3")
        mainMenu()


mainMenu()'''


#Define the inside functions

'''def mainMenu():
    print("1. Do something good")
    print("2. Do something bad")
    print("3. Quit")
    selection=int(input("Enter the choice: "))
    if selection==1:
        good()
    elif selection==2:
        bad()
    elif selection==3:
        exit
    else:
        print("Invalid Choice. Enter 1-3")
        mainMenu()



def good():
    print("Good")
def bad():
    print("Bad")

mainMenu()'''


# How to go back to main menu function after a selection

'''def mainMenu():
    print("1. Do something good")
    print("2. Do something bad")
    print("3. Quit")
    selection=int(input("Enter the choice: "))
    if selection==1:
        good()
```

```
    elif selection==2:
        bad()
    elif selection==3:
        exit
    else:
        print("Invalid Choice. Enter 1-3")
        mainMenu()

def good():
    print("Good")
    anykey=input("Enter any key to return to the main menu function")
    mainMenu()

def bad():
    print("Bad")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

mainMenu()'''

# There will be error if we put different choice than integer, how to
solve this issue?

'''def mainMenu():
    print("1. Do something good")
    print("2. Do something bad")
    print("3. Quit")
    try:
        selection=int(input("Enter the choice: "))
        if selection==1:
            good()
        elif selection==2:
            bad()
        elif selection==3:
            exit
        else:
            print("Invalid Choice. Enter 1-3")
            mainMenu()
    except ValueError:
        print("Invalid Choice, enter 1-3")



def good():
    print("Good")
    anykey=input("Enter any key to return to the main menu function")
    mainMenu()

def bad():
    print("Bad")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

mainMenu()'''


# Control the error and bring back the program back to main menu we
have to start infinite while loop
```

```
'''def mainMenu():
    print("1. Do something good")
    print("2. Do something bad")
    print("3. Quit")
    while True:
        try:
            selection=int(input("Enter the choice: "))
            if selection==1:
                good()
                break
            elif selection==2:
                bad()
                break
            elif selection==3:
                break

            else:
                print("Invalid Choice. Enter 1-3")
                mainMenu()
        except ValueError:
            print("Invalid Choice, enter 1-3")
    exit


def good():
    print("Good")
    anykey=input("Enter any key to return to the main menu function")
    mainMenu()

def bad():
    print("Bad")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

mainMenu()'''

# Resturant menu Function
def mainMenu():
    print("1. Starter")
    print("2. Main Food")
    print("3. Dessert")
    print("4. Soft Drinks")
    print("5. Quit")

    while True:
        try:
            selection=int(input("Enter the choice: "))
            if selection==1:
                starter()
                break
            elif selection==2:
                mainfood()
                break
            elif selection==3:
                dessert()
                break
            elif selection==4:
                softdrinks()
                break
            elif selection==5:
```

```
                break

            else:
                print("Invalid Choice. Enter 1-5")
                mainMenu()
        except ValueError:
            print("Invalid Choice, enter 1-5")
    exit


def starter():
    print("Chilli Potatoes: 10 RMB")
    print("Chilli Paneer: 20 RMB")
    print("Vegetable Gold Coins: 20 RMB")
    anykey=input("Enter any key to return to the main menu function")
    mainMenu()

def mainfood():
    print("Fried rice: 30 RMB")
    print("garlic fried: 30 RMB")
    print("vegetable fried rice: 30 RMB")
    print("mushroom rice fried rice: 30 RMB")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

def dessert():
    print("Fried Banana: 30 RMB")
    print("Toffee apples: 30 RMB")
    print("Date wantons: 30 RMB")
    print("Ice cream: 30 RMB")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

def softdrinks():
    print("cola: 30 RMB")
    print("sprite: 30 RMB")
    print("pepsi: 30 RMB")
    anykey = input("Enter any key to return to the main menu
function")
    mainMenu()

mainMenu()
```

```
#Import modules

'''import math

# use math module functions
print(math.sqrt(5))
# Output 2.23606797749979'''

# Import multiple modules


'''import math, random
```

```
print(math.factorial(5))
print(random.randint(10, 20))'''

# import only factorial function from math module
'''from math import factorial

print(factorial(5))'''


# import the module as different name
'''import random as rand

print(rand.randrange(10, 20, 2))'''


#import all names

from math import *
print(pow(4,2))
print(factorial(5))

print(pi*3)
print(sqrt(100))
```