

Exercise 1.

The appliances section in Carrefour add a delivery charge (per items) into the appliances bill as follows.

Items	Additional delivery charge per item
Up to 2	70
3 to 5	50
6 to 7	35
More than 7	30

Write a python program that asks the user to enter the number of items. Calculate and display the total delivery charge the client needs to pay.

Model answer

```
Items = int(input("Enter the number of items: "))
Charge=0

if (Items<1):
    print ("Error, Items must be 1 and above !!")
elif (Items >=1 and Items <=2):
    Charge = Charge + (Items * 70)
elif (Items >=3 and Items <=5):
    Charge = Charge + (Items * 50)
elif (Items >=6 and Items <=7):
    Charge = Charge + (Items * 35)
elif (Items >7):
    Charge = Charge + (Items * 30)

print ("Delivery charges is ", Charge)
```

Exercise 2:

Write a program that read the student mark and absent percentage and display proper message considering the pass mark is 60 and the course drop rate is 15%.

Screenshot

```
Enter your mark: 85
Pass
Enter your absent percentage: 26
Drop from the course
❖ □
```

Code

```
mark = input("Enter your mark: ")
mark = float(mark)

if (mark>=60):
    print ("Pass")
else:
    print ("Fail")

absent = input("Enter your absent
percentage: ")
absent = int(absent)

if (absent>=15):
    print ("Drop from the course ")
else:
    print ("Continue the course")
```

Exercise 3:

Write a program that display a menu of two choices “1. UAE, 2. Non-UAE” and the user will select his option, the program read the user age and display if he is eligible for the National Medial Card or not

Users with UAE citizenship and age greater than 18 years old are eligible.

Screenshot	Code
<pre>Choose your nationality: 1.UAE 2.Non UAE 1 Enter your age: 23 You are eligable for the National Medical Card > </pre>	<pre>Ncode = input("Choose your nationality: \n1.UAE \n2.Non UAE\n") Ncode=int(Ncode) if (Ncode==1): age =input("Enter your age: ") age=int(age) if (age >= 18): print ("You are eligible for the National Medical Card") else: print ("You are not eligible for the National Medical Card") else: print ("Non UAE are not eligible for the National Medical Card")</pre>

Exercise 4:

Write a program that display a menu of two choices “1. Express, 2. Standard” and the user will select his option, the program should display 4000 for express cost and 2500 for stander visa processing.

Screenshot

```
Select the visa type?  
1.Express  
2.Standard  
1  
Visa Charge is 4000  
➤ █
```

Code

```
VisaType= int(input("Select the visa type?  
\n1.Express \n2.Standard\n"))  
  
VisaCharge=0  
if (VisaType==1):  
    VisaCharge=4000  
elif (VisaType==2):  
    VisaCharge=2500  
else:  
    print ("Error, You must select either 1 or  
2")  
  
if (VisaCharge!=0):  
    print ("Visa Charge is ", VisaCharge)
```

Exercise 5:

Write a program read three persons heights and find and display the tallest height.

Screenshot

```
Enter the first person height: 182
Enter the second person height: 165
Enter the third person height: 177
The tallest of all the three is 182.0
❖ █
```

Code

```
height1= float(input("Enter the
first person height: "))
height2= float(input("Enter the
second person height: "))
height3= float(input("Enter the
third person height: "))

max=0
if (height1>height2):
    if (height1>height3):
        max =height1
    else:
        max =height3
else:
    if (height2>height3):
        max =height2
    else:
        max =height3

print ("The tallest of all the
three is ", max)
```

Exercise 6:

Write a program to read number of computers that needs services and calculate the service charge as in below table.

PCs	Charges / per pc
Up to 3	100
4-6	75
7-9	50
>10	40

Screenshot

```
Enter number of PCs you need services: 11  
The service charge is 440
```



Code

```
PCs_Number = int(input("Enter  
number of PCs you need services "))  
  
charge=0  
  
if (PCs_Number>=1 and  
PCs_Number<=3):  
    charge = PCs_Number * 100  
elif (PCs_Number>=4 and  
PCs_Number<=6):  
    charge = PCs_Number * 75  
elif (PCs_Number>=7 and  
PCs_Number<=9):  
    charge = PCs_Number * 50  
elif (PCs_Number>=10):  
    charge = PCs_Number * 40  
  
print("The service charge is ",  
charge)
```