Prectical Set -3

1. Get the basic salary from the employee and display the net salary by calculating the following conditions: Applicable TA 4%, DA 30%, HRA 15% on basic salary. Applicable 3% tax, 12% PF on basic salary.

```
salary = int(input("Enter Basic Salary :"))

print("----------------------------------------")

print("Your Basic Salary is %i"%salary)

print("----------------------------------------")

ta=(salary*4)/100

print("TA : ",ta)

da=(salary*30)/100

print("DA : ",da)

hra=(salary*15)/100

print("HRA : ",hra)

salary=salary+ta+da+hra

tax=(salary*3)/100

pf=(salary*12)/100

print("Tex :",tax)

print("PF :",pf)

print("----------------------------------------")

salary=salary-tax-pf

print("On hand Salary is : ",salary)
```

2. Get the marks of 5 subjects at the command line and display the total of marks, and percentage.

```
import sys

sub1= int(sys.argv[1])
```

```
sub2= int(sys.argv[2])

sub3= int(sys.argv[3])

sub4= int(sys.argv[4])

sub5= int(sys.argv[5])

tot = sub1+sub2+sub3+sub4+sub5

per = tot/5

print("Marks of Subject 1 :",sub1)

print("Marks of Subject 2 :",sub2)

print("Marks of Subject 3 :",sub3)

print("Marks of Subject 4 :",sub4)

print("Marks of Subject 5 :",sub4)

print("--------------------------------")

print("Total Marks : ",tot)

print("Percentage : ",per)
```

3. Rajkot Corporation wants to make simple application to calculate Water Bill of Rajkotians. Water
is being delivered by the Corporation on per litre charges as below:
Upto 90 litres – Rs. 0/ltr
Upto 150 litres – Rs. 2/ltr
Upto 250 litres – Rs. 5/ltr
More than 250 – Rs. 10/ltr
Accept unit consumption from consumer and display the bill amount.

```
li = int(input("Enter Liters of Water : "))
if li<90:
   print("Your Water bill is : 0 Rs.")
elif li>90 and li<=150:
   print("Your Water bill is : ",li*2)
elif li>150 and li<=250:
   print("Your Water bill is : ",li*5)
elif li>250:
   print("Your Water bill is : ",li*10)
else:
   print("Enter Valid Liters of Water")
```

Prectical Set -3

4. A tuition class owner wants to make a simple application to allocate grade to the students on
the basis of marks student have scored. Accept marks from the students.
Marks more than 90 – A1 grade
Marks 80 or less than or equal 90 – A grade
Marks 70 or less than or equal 80 – B1
Marks 60 or less than or equal 70 – B
Marks 50 or less than or equal 60 – Can do Better!
Marks <50 – Need to work hard.

```
marks = int(input("Enter Student Marks :"))

if marks>90:
   print("Grade : A+")
elif marks>80:
   print("Grade : A")
elif marks>70:
   print("Grade : B1")
elif marks>60:
   print("Grade : B")
elif marks>50:
   print("Grade : Can do Better!")
else:
   print("Need to work hard")
```

5. Income Tax department wants to make an application that calculates tax on the basis of the
income. Accept yearly income earned by the taxpayer as an input and calculate tax to be paid.
The tax slab is as below:
Income up to 8 lakhs – No tax
Income more than 8 lakh and less than 10 lakhs – 15% of income
Income more than 10 lakhs and less than 20 lakhs – 20% of income
Income more than 20 lakhs – 30% of income

```
income = int(input("Enter Your Income :"))

if income<800000:
   print("You have Not  need to Pay any Tax")
elif income>=800000 and income<=1000000:
   print("You have need to Pay 15% Tax.")
   print("-----------------------------------")
   print("Your Income :",income,"\n","Tax on Your Income :",(income*15)/100)
elif income>1000000 and income<=2000000:
   print("You have need to Pay 20% Tax.")
   print("-----------------------------------")
   print("Your Income :",income,"\n","Tax on Your Income :",(income*20)/100)
```

```
else:
   print("You have need to Pay 30% Tax.")
   print("-----------------------------------")
   print("Your Income :",income,"\n","Tax on Your Income :",(income*30)/100)
```

6. Accept two integer values in separate variable, display the small value and big value out of it.

```
a=int(input("Enter Value of A :"))
b=int(input("Enter Value of B :"))

if a>b:
   print("Value of A is Big.")

if b>a:
   print("Value of B is Big.")

if a==b:
   print("Both values are Same.")
```

7. Accept marks from 4 students, display which mark is highest among all.

```
s1 = int(input("Enter Marks Of Student 1 :"))
s2 = int(input("Enter Marks Of Student 2 :"))
s3 = int(input("Enter Marks Of Student 3 :"))
s4 = int(input("Enter Marks Of Student 4 :"))

if s1>s2 and s1>s3 and s1>s4:
   print("Student 1's Marks is Highest.")
elif s2>s1 and s2>s3 and s2>s4:
   print("Student 2's Marks is Highest.")
elif s3>s1 and s3>s2 and s3>s4:
   print("Student 3's Marks is Highest.")
else:
   print("Student 4's Marks is Highest.")
```

8. An online selling app wants to develop a application to calculate shipping charges on the
purchase. Accept amount from the user and calculate the shipping charges.
The shipping charges are as below:
Shopping amount less than 1500 – The shipping charges is Rs. 100/-
--Type the message: Please purchase (1500-amount) to avail shipping charge of Rs. 80/-
--Please pay (amount+100)
Shopping amount more than 1500 and less than 3000 – The shipping charges is Rs. 70/-

Prectical Set -3

```
--Type the message: Please purchase (3000-amount) to avail shipping charge of Rs. 50/-
--Please pay (amount+70)
Shopping amount more than 3000 – Free shipping + 7% discount on amount
--Type a message: You saved (amount*7/100)
--Please pay (amount – discount)
```

```
amount = int(input("Enter Your Shopping Amount :"))

if amount<1500:
   print("Please purchase 1500 Amount to avail shipping charge of  Rs. 80/-")
   print("Please Pay :",amount," + 100 = ",amount+100)
elif amount>1500 and amount<3000:
   print("Please purchase 3000 Amount to avail shipping charge of  Rs. 50/-")
   print("Please Pay :",amount," + 70 = ",amount+100)
else:
   print("You Saved :",(amount*7/100))
   print("Please Pay :",(amount-(amount*7/100)))
```