# **COMSATS** University Islamabad

## **Attock Campus**



## **Department Of Computer Science**

Course	AICT (CSC101)
Instructor	Sir Umar Zia
Assignment No.	03
Project Title	Faith Public School

# **Group Members Details**

Registration No.	Name
FA23-BAI-020	Ahsan Hayat
FA23-BAI-042	Fassi-ur-Rehman
FA23-BAI-058	Ali Turab
FA23-BAI-023	M. Usman
FA23-BAI-014	Shaiman Akbar

faith public school.py X

```
#Project Name: Faith Public School
#Assignment no 3
print("Module 1: Students")
print("Module 2: Teachers")
print("Module 3: Fee Department")
print("Module 4: Library")
print("Module 5: Canteen")
module=int(input("Enter the module you want to run:"))
if module==1:
    #code of student module
elif module==2:
    #code of teacher module
elif module==3:
    #code of fee module
elif module==4:
    #code of library module
elif module==5:
    #code of canteen module
else
    #code
```

### CODE:

```
#Name=Syed Ali Turab Mehdi
#Reg_No.=FA23-BAI-058
#Assignment NO. 04
# Lists to store student data
names = []
marks = []
grades = []
n = int(input("Enter the number of subjects: "))
i = 0
while i < n:
  student_name = input("Enter the name of student: ")
  names.append(student_name)
  student_marks = float(input("Enter the marks: "))
  marks.append(student_marks)
  if student_marks >= 80:
    grade = "A+"
  elif student_marks >= 70:
    grade = "A"
  elif student_marks >= 60:
    grade = "B"
  elif student_marks >= 50:
    grade = "C"
  elif student_marks >= 40:
    grade = "D"
```

```
else:
    grade="F"

grades.append(grade)
    i = i + 1

print(list(zip(names, marks, grades)))
```

```
### Whame Syed Ali Turus Mehdi

##$62, No. #A23-BAI-858

##$52, No. #A2
```

#### CODE:

#Module 2 #Teachers

```
#M.Fassi Ur Rehman
#FA23-BAI-042
#these two lists in which the data is entered by user
teachers id=[]
Salaries=[]
#these two lists in which data is enterd by the above two lists
Taxes=[]
annual salaries=[]
no of teachers= int(input("Enter number of teachers:"))
i=0
while i in range (no of teachers):
  teacher id=input("enter the id of teacher:")
  teachers_id.append(teacher_id)
  salary = int(input("Enter Salary :"))
  Salaries.append(salary)
  tax=salary*.25
  Taxes.append(tax)
  annual salary=salary*12-tax*12
  annual salaries.append(annual salary)
  i=i+1
print("[id-salary-tax-annual salary]")
#now the code will print the teacher's id their tax and salary of year
print(list(zip(teachers id,Salaries,Taxes,annual salaries)))
Output:
```

```
#Module 2
#Teachers
#M.Fassi Ur Rehman
#FA23-BAI-042

#these two lists in which the data is entered by user
teachers_id=[]
Salaries=[]
#these two lists in which data is entered by the above two lists
Taxes=[]
annual_salaries=[]
no of_teachers= int(input("Enter number of teachers:"))
i=0
while i in range (no_of_teachers):
    teacher_id=input("enter the id of teacher:")
    teachers_id.append(teacher_id)
    salary = int(input("Enter Salary :"))
    Salaries.append(salary)
    tax=salary*.25
    Taxes.append(tax)
    annual_salary=salary*12-tax*12
    annual_salary=salary*12-tax*12
    annual_salary=salary*12-tax*12
    i=i+1
print("[id-salary-tax-annual_salary]")
#now the code will print the teacher's id their tax and salary of year
print(list(zip(teachers_id, Salaries, Taxes, annual_salaries)))
```

Console 20/A X Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)] Type "copyright", "credits" or "license" for more information. IPython 8.12.3 -- An enhanced Interactive Python. In [1]: runfile('C:/Users/toshiba/Desktop/AICT ASSIMNT 04.py', wdir='C:/ Users/toshiba/Desktop') Enter number of teachers:3 enter the id of teacher:de987 Enter Salary: 100000 enter the id of teacher:wr555 Enter Salary:65000 enter the id of teacher:qu723 Enter Salary: 75000 [id-salary-tax-annual salary] [('de987', 100000, 25000.0, 900000.0), ('wr555', 65000, 16250.0, 585000.0), 'qu723', 75000, 18750.0, 675000.0)]

#### CODE:

```
print("Fee Department")
# Project Name: ("Faith Public School")
# Module Name: ("Fee Department")
# Name: Malik Ahsan Hayat
# Reg N0.:FA23-BAI-020
# For login in fee department
username = input("Enter your Username :")
password = input("Enter your password :")
while username!="admin" or password!="admin":
  print("invalid ")
  username = input("Enter your Username :")
  password = input("Enter your password :")
print("Valid")
student name = input("Enter the name of Student:")
roll no = input("Enter roll no of the student:")
Class = input("Class:")
student= []
class name = []
number of student = int(input("Enter number of students: "))
for i in range(0, number of student):
  studentVar = input("Enter Your Name of student: ")
  student.append(studentVar)
  class nameVar = int(input("Enter Your Class: "))
  class name.append(class nameVar)
print(student_name)
print(class name
```

```
print("Fee Department")
# Project_Name:("Faith_Public_School")
# Module_Name:("Fee Department")
# Name:Malik_Ahsan_Hayat
# Reg_N0.:FA23-BAI-020
# For login in fee department
username = input("Enter your Username :")
password = input("Enter your password :")
while username!="admin" or password!="admin":
    print("invalid ")
    username = input("Enter your Username :")
password = input("Enter your password :")

print("Valid")

student_name = input("Enter the name of Student:")
roll_no = input("Enter roll no of the student:")
class = input("Class:")

student= []
class_name = []
number_of_student = int(input("Enter number of students: "))
for i in range(0, number_of_student):
    studentVar = input("Enter Your Name of student: ")
    student.append(studentVar)
```

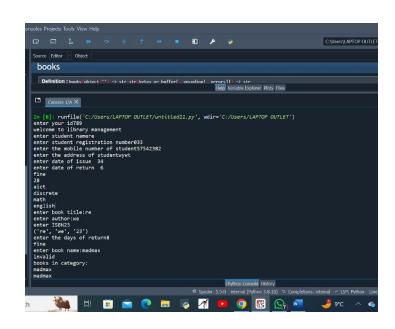
```
studentVar = input("Enter Your Name of student: ")
student.append(studentVar)
class_nameVar = int(input("Enter Your Class: "))
class_name.append(class_nameVar)
print(student_name)
print(class_name)
```

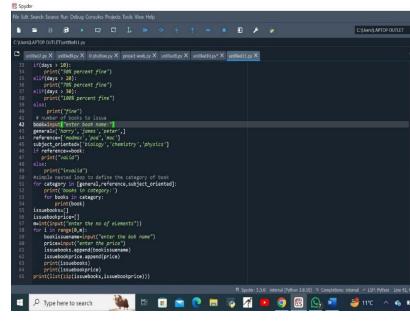
```
In [1]: runfile('C:/Users/user/untitled11.py', wdir='C:/Users/user')
Fee Department
Enter your Username :admin
Enter your password :admin
Valid
Enter the name of Student:ali
Enter roll no of the student:12
Class:11
Enter number of students: 2
Enter Your Name of student: ali
Enter Your Class: 3
Enter Your Name of student: ahmed
Enter Your Class: 3
ali
[3, 3]
```

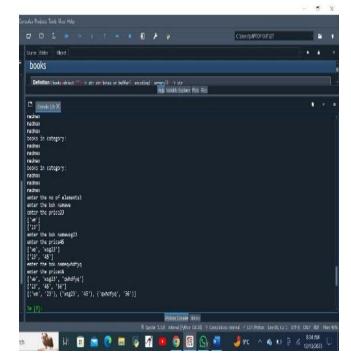
```
CODE:
#NAME=MUHAMMAD USMAN
#REG=FA23BAI023
#FAITHPUBLICSCHOOL
#LIBRARY ISSUE FORM
#inputing variables
id=int(input("enter your id"))
while(id<700):
  id=int(input("enter your id"))
print("welcome to library management")
name=str(input("enter student name"))
REGISTRATION_NUMBER=input("enter
student registration number")
mobile number=input("enter the mobile number of student")
address=input("enter the address of student")
return within days=30
the date of issue=int(input("enter date of issue "))
the date of return=int(input("enter date of return "))
total days=the date of issue-the date of return
abs(total_days)
if(return within days>total days):
  print("fine")
else:
  print("not fine")
print(total days)
numberofbooks= ["aict", "discrete", "math", "english"]
for i in numberofbooks:
 print(i)
title = input("enter book title:")
author = input("enter author:")
ISBN = input("enter ISBN")
ISSUED BOOKS= (title,author,ISBN)
print(ISSUED BOOKS)
days=int(input("enter the days of return"))
if(days > 10):
  print("50% percent fine")
elif(days > 20):
  print("70% percent fine")
elif(days > 30):
  print("100% percent fine")
else:
   print("fine")
# number of books to issue
book=input("enter book name:")
general=['harry','james','peter',]
reference=['madmax','pod','mac']
subject_oriented=['biology','chemistry','physics']
if reference==book:
 print("valid")
  print("invalid")
```

```
y X untitled9.py X 0 phython.py X project work.py X untitled8.py X untitled10.py* X untitle
                     🐃 🖽 🔳 🕿 🙋 📾 🎅 🥂
```

#simple nested loop to define the category of book for category in [general,reference,subject oriented]: print('books in category:') for books in category: print(book) issuebooks=[] issuebookprice=[] m=int(input("enter the no of elements")) for i in range(0,m): bookissuename=input("enter the bok name") price=input("enter the price") issuebooks.append(bookissuename) issuebookprice.append(price) print(issuebooks) print(issuebookprice) print(list(zip(issuebooks,issuebookprice)







```
age=[]
CODE:
                                                                                 Id=[]
                                                                                 num = int(input("Enter num of customer : "))
                                                                                 for i in range(0,num):
# Name: Shaiman Akbar Ehsan
                                                                                    nameVar = input("Enter Your Name :")
                                                                                    name.append(nameVar)
# Reg: 014
                                                                                    ageVar = int(input("Enter Your Age :"))
choice=str(input("Enter Choice: 1-products 2-customers"))
                                                                                    age.append(ageVar)
                                                                                    IdVar = int(input("Enter Your Id :"))
if choice=="1":
                                                                                    Id.append(IdVar)
  name=[]
                                                                                 print(name)
                                                                                 print(age)
  age=[]
                                                                                 print(Id)
  Id=[]
                                                                                 items=["samoosa","juice","burger","tea"]
  num = int(input("Enter num of customer : "))
                                                                                 w=["macroni_samoosa","keema_samoosa","chicken_samoosa"]
  for i in range(0,num):
     nameVar = input("Enter Your Name :")
                                                                                        x=["apple_juice","orange_juice","pineaplle_juice"]
y=["zinger_burger","turkey_burger","veggie_burger"]
z=["kashmiri_tea","black_tea","herbal_tea"]
for item in range(1):
     name.append(nameVar)
     ageVar = int(input("Enter Your Age :"))
     age.append(ageVar)
                                                                                           print("samoosa: ",end="\n ")
     IdVar = int(input("Enter Your Id :"))
                                                                                             print(a,end="\n")
     Id.append(IdVar)
                                                                                           print("juice: ",end="\n ")
   print(name)
                                                                                             print(b,end="\n")
  print(age)
                                                                                           print(" ")
print("burger: ",end="\n ")
  print(Id)
                                                                                             print(c,end="\n")
  items=["samoosa","juice","burger","tea"]
  w=["macroni_samoosa","keema_samoosa","chicken_samoosa"]
                                                                                             print(d,end="\n")
  x=["apple_juice","orange_juice","pineaplle_juice"]
  y=["zinger_burger","turkey_burger","veggie_burger"]
  z=["kashmiri_tea","black_tea","herbal_tea"]
  for item in range(1):
                                                           while choice.lower() != "exit":
     print("samoosa: ",end="\n ")
                                                             choice = input("Enter Choice: 1-products 2-customers (type 'exit' to end): ")
     for a in w:
                                                              if choice == "1":
       print(a,end="\n")
                                                                 # Your code for handling products
     print(" ")
                                                                 items = ["samoosa", "juice", "burger", "tea"]
# ... (rest of your product handling code)
     print("juice: ",end="\n ")
     for b in x:
                                                              elif choice == "2":
                                                                 # Your code for handling customers
product_id = int(input("Enter the product id: "))
       print(b,end="\n")
     print(" ")
                                                                 product_name = input("Enter the product name: ")
     print("burger: ",end="\n ")
     for c in y:
                                                              elif choice.lower() != "exit":
                                                                 print("Invalid choice. Please enter 1, 2, or 'exit'.")
       print(c,end="\n")
     print(" ")
     print("tea: ",end="\n ")
                                                     elif choice=="2" :
     for d in z:
                                                        product_id = int(input("Enter the product id: "))
                                                        product name = input("Enter the product name: ")
       print(d,end="\n")
     print(" ")
     while choice.lower() != "exit":
       choice = input("Enter Choice: 1-products 2-customers (type 'exit' to end): ")
       if choice == "1":
          # Your code for handling products
          items = ["samoosa", "juice", "burger", "tea"]
          # ... (rest of your product handling code)
       elif choice == "2":
          # Your code for handling customers
```

choice=str(input("Enter Choice: 1-products 2-customers "))

if choice=="1": name=[]

```
product id = int(input("Enter the product id: "))
        product name = input("Enter the product name: ")
        # ... (rest of your customer handling code)
      elif choice.lower() != "exit":
         print("Invalid choice. Please enter 1, 2, or 'exit'.")
elif choice=="2":
  product_id = int(input("Enter the product id: "))
  product name = input("Enter the product name: ")
  product price = int(input("Enter the product selling price: "))
  cost price = int(input("Enter the product cost price: "))
  unit = int(input("Enter the unit: "))
  total_sales = unit * product_price
  total cost = unit * cost price
  profit loss = total sales - total cost
  print("Product ID:", product_id)
  print("Product Name:", product name)
  print("Product Selling Price:", product price)
  print("Cost Price:", cost_price)
  print("Unit:", unit)
  print("Total Sales:", total_sales)
  print("Total Cost:", total cost)
  if profit loss > 0:
   print("Profit:", profit_loss)
  elif profit loss < 0:
   print("Loss:", -profit_loss)
  else:
   print("No Profit, No Loss")
```

```
if profit_loss > 0:
    print("Profit:", profit_loss)
elif profit_loss < 0:
    print("Loss:", -profit_loss)
else:
    print("No Profit, No Loss")</pre>
```

```
In [1]: runfile('C:/Users/user/.spyder-py3/temp.py', wdir='C:/Users/user/.spyder-py3')
Enter choice: 1-products 2-customers 1
Enter nom of customer: 1
Enter Your Name: shymoon
Enter Your Age: 55
Enter Your Id: 12
['shymoon']
[55]
[52]
samoosa:
macroni_samoosa
keema_samoosa
chicken_samoosa
dicken_samoosa
juice:
apple_juice
orange_juice
pineaphle_juice
burger:
zinger_burger
turkey_burger
veggie_burger
```

```
tas:
kashmini_tea
black_tea
herbal_tea

Enter Choice: 1-products 2-customers (type 'exit' to end): 1
Enter Choice: 1-products 2-customers (type 'exit' to end): 2
Enter the product id: 12
Enter the product id: 12
Enter the product amme: uyghd
Enter Choice: 1-products 2-customers (type 'exit' to end): exit

1n [2]: runfile('C:/Users/user/.spyder-py3/temp.py', wdir='C:/Users/user/.spyder-py3')
Enter Choice: 1-products 2-customers 2
Enter Choice: 1-products 2-customers 2
Enter the product id: 34
Enter the product same: juice
Enter the product same: juice
Enter the product sost price: 45
Enter the product cost price: 40
Enter the unit: 1
Product ID: 34
Product Name: juice
Product Solling Price: 45
Cost Price: 40
Unit: 1
Total Sales: 45
Total Cost: 40
Destire 8

Total Cost: 40
Destire 8
```