

Practical File Computer Science (Class XI)

Submitted To

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XI Sci

Python

Assignment 1

Objective: Write a python program to read today's date from user. Then display how many days are left in current days.

Code:

```
date=input("Enter date in DDMMYYYY format :")
month=date[2:4]
if month in ("01", "03", "05", "07", "08", "10", "12"):
    left=31-int(date[0:2])
elif month in ("04", "06", "09", "11"):
    left=30-int(date[0:2])
if month=="02":
    if int(date[4:])*4==0:
        left=29-int(date[0:2])
    else:
        left=28-int(date[0:2])
print("Number of days left in month =",left)
```

Input:

Enter date in DDMMYYYY format : 29082001

Output:

Number of days left in month = 2

Input:

Enter date in DDMMYYYY format : 24112020

Output:

Number of days left in month = 6

Assignment 2

Objective: Write a python program to obtain x, y, z from users and calculate expression:
 $4x^4+3y^3+9z+6\pi$.

Code:

```
from math import pi
x=int(input("Enter value of x : "))
y=int(input("Enter value of y : "))
z=int(input("Enter value of z : "))

sol=(4*(x**4))+(3*(y**3)+(9*z)+(6*pi))
print("Solution of equation is",sol)
```

Input:

```
Enter value of x : 3
Enter value of y : 6
Enter value of z : 9
```

Output:

```
Solution of equation is 1071.849555921539
```

Assignment 3

Objective: Write a python program that accepts marks in 5 subjects and outputs average marks.

Code:

```
s1 = int(input("Enter marks in Physics : "))
s2 = int(input("Enter marks in Chemistry : "))
s3 = int(input("Enter marks in Maths : "))
s4 = int(input("Enter marks in Computer Science : "))
s5 = int(input("Enter marks in English : "))
```

```
avg=(s1+s2+s3+s4+s5)/5
print("Average of five subjects is", avg)
```

Input:

```
Enter marks in Physics : 90
Enter marks in Chemistry : 96
Enter marks in Maths : 100
Enter marks in Computer Science : 100
Enter marks in English : 94
```

Output:

```
Average of five subjects is 96.0
```

Assignment 4

Objective: Write a python program to take a 2-digit number and then print the reversed number.

Code:

```
n=int(input("Enter the no. for reversing : "))
rev=0
m=n
while n>0:
    s=n%10
    rev=rev*10+s
    n=n//10
print("Reverse of",m,"is",rev)
```

Input:

Enter the no. for reversing : 23365

Output:

Reverse of 23365 is 56332

Input:

Enter the no. for reversing : 23452

Output:

Reverse of 23452 is 25432

Assignment 5

Objective: Write a python program to input a single digit (n) and print a three digit number created as $\langle n(n+1)(n+2) \rangle$. The input digit is in range 1-7.

Code:

```
dig=int(input("Enter a digit from 1-7 : "))
new_dig=str(dig)+str(dig+1)+str(dig+2)
print("New digit is",new_dig)
```

Input:

Enter a digit from 1-7 : 1

Output:

New digit is 123

Input:

Enter a digit from 1-7 : 7

Output:

New digit is 789

Assignment 6

Objective: Write a python program to print first n odd numbers in descending order.

Code:

```
n=int(input("Enter upper limit : "))
a=[]
for i in range(1,n+1,2):
    a.append(i)
a.reverse()
for i in a:
    print(i, end=" ")
```

Input:

Enter upper limit : 28

Output:

27 25 23 21 19 17 15 13 11 9 7 5 3

Assignment 7

Objective: Write a python program to input length of three sides of a triangle. Then check if these sides will form a triangle or not.

Code:

```
a=int(input("Enter first side : "))
b=int(input("Enter second side : "))
c=int(input("Enter third side : "))
if (a+b)>c and (b+c)>a and (a+c)>b:
    print("Triangle will be formed.")
else:
    print("Triangle will not be formed")
```

Input:

```
Enter first side : 4
Enter second side : 5
Enter third side : 6
```

Output:

```
Triangle will be formed.
```

Input:

```
Enter first side : 1
Enter second side : 2
Enter third side : 7
```

Output:

```
Triangle will not be formed.
```


Assignment 8

Objective: Write a python program to print every integer between 1 and n divisible by m. Also, report whether the number divisible by m is odd or even.

Code:

```
n=int(input("Enter upper limit : "))
m=int(input("Enter divisor : "))
a=[]
for i in range(1,n):
    if i%m==0 and i%2==0:
        print(i,"is divisible by",m,"and is even")
    elif i%m==0 and i%2!=0:
        print(i,"is divisible by",m,"and is odd")
```

Input:

```
Enter upper limit : 18
Enter divisor : 4
```

Output:

```
4 is divisible by 4 and is even
8 is divisible by 4 and is even
12 is divisible by 4 and is even
16 is divisible by 4 and is even
```

Input:

```
Enter upper limit : 12
Enter divisor : 3
```

Output:

```
3 is divisible by 3 and is odd
6 is divisible by 3 and is even
9 is divisible by 3 and is odd
12 is divisible by 3 and is even
```

Assignment 9

Objective: Write a python program to sum the given sequence : $1^2 + 3^2 + 5^2 + \dots + n^2$ (input n).

Code:

```
n=int(input("Enter upper limit : "))
sum=0
for i in range(1,n+1,2):
    sum+=(i**2)
print("Sum is",sum)
```

Input:

Enter upper limit : 15

Output:

Sum is 680

Input:

Enter upper limit : 24

Output:

Sum is 2300

Assignment 10

Objective: Ask the user to enter a list containing numbers between 1 and 12. Then replace all the entries in the list that are greater than 10 with 10

Code:

```
nums=eval(input("Enter a list of numbers in the range 1 to 12 : "))
for i in range(len(nums)):
    if nums[i]>10:
        nums[i]=10
print("New list is",nums))
```

Input:

Enter a list of numbers in the range 1 to 12 :
[1,11,12,2,5,7,10,8,6,9,3,11,10,5,12]

Output:

New list is [1, 10, 10, 2, 5, 7, 10, 8, 6, 9, 3, 10, 10, 5, 10]

Assignment 11

Objective: Write a python program that reads a string and then prints a string that capitalizes every other letter in the string. E.g. passion becomes pAsSiOn.

Code:

```
str=input("Enter a string : ")
len1=len(str)
list1=list(str)
for i in range(1,len1,2):
    list1[i]=list1[i].upper()
s=""
for i in list1:
    s+=i
print("New string is",s)
```

Input:

Enter a string : passion

Output:

New string is pAsSiOn

Input:

Enter a string : python

Output:

New string is pYtHoN

Assignment 12

Objective: Write a python program that inputs a list of numbers and shifts all the zeros to the left and all non-zero numbers to the right of the list.

Code:

```
list1=eval(input("Enter a list of numbers : "))    #not copied
list2=[]
for i in list1:
    if i==0:
        list2.insert(0, i)
    else:
        list2.append(i)

print("New list is",list2)
```

Input:

Enter a list of numbers : [1, 2, 3, 0, 0, 5]

Output:

New list is [0, 0, 1, 2, 3, 5]

Input:

Enter a list of numbers : [1,0,12,0,5,7,10,8,6,0,3,11,0,5,12]

Output:

New list is [0, 0, 0, 0, 1, 12, 5, 7, 10, 8, 6, 3, 11, 5, 12]

Assignment 13

Objective: Write a program inputs two tuple and creates third, that contain all the elements of first followed by all the elements of the second, which are not in the first.

Code:

```
a=eval(input("Enter first tuple : "))
b=eval(input("Enter second tuple : "))
c = []
c.extend(a)
for i in b:
    if i not in a:
        c.append(i)
print("New tuple is", tuple(c))
```

Input:

```
Enter first tuple : (1, 2, 3, 4, 5, 6)
Enter second tuple : (4, 5, 6, 7, 8, 9)
```

Output:

```
New tuple is (1, 2, 3, 4, 5, 6, 7, 8, 9)
```

Assignment 14

Objective: Write a python program that:

- a) prompts the user for a string
- b) Extract all the digits from the string
- c) If there are digits, print the digits and the sum of the digits
- d) If there are no digits, show a message stating the same.

Code:

```
str1=input("Enter a string : ")
list1=[]
total=0

for i in str1:
    if i.isdigit():
        list1.append(i)
        total += int(i)

if total > 0:
    print('Digits in the string : ', end='')
    for i in list1:
        print(i, end=" ")
    print("\nSum of digits is", total)
else:
    print("Given string has no digits")
```

Input:

Enter a string : 1.7wh1ter0se.m4v

Output:

Digits in the string : 1 7 1 0 4
Sum of digits is 13

Input:

Enter a string : whiterose

Output:

Given string has no digits

Assignment 15

Objective: Given a tuple pairs=((2,5),(4,2),(9,8),(12,10)), count the numbers of pair (a, b) such that both a and b are even.

Code:

```
count=0
pairs=eval(input("Enter a tuple which contains a tuple of 2 numbers: "))
for i in pairs:
    a=list(i)
    if a[0]%2==0 and a[1]%2==0:
        count+=1
print(count)
```

Input:

Enter a tuple which contains a tuple of 2 numbers: ((1,2),(4,5),(2,4),(6,8))

Output:

2

Assignment 16

Objective: Find the sum of the sequence. $x + \frac{x^2}{2} + \frac{x^3}{3} \dots \frac{x^n}{n}$

Code:

```
x=int(input("Enter value of x : "))
n=int(input("Enter upper limit : "))
sum=0
for i in range(1,n+1):
    sum+=(x**i)/i
print("Sum is",sum)
```

Input:

Enter value of x : 2
Enter upper limit : 2

Output:

Sum is 4.0

Input:

Enter value of x : 1
Enter upper limit : 3

Output:

Sum is 1.8333333333333333

Assignment 17

Objective: Write a python program that has a list containing the squares of the integers 1 through 50.

Code:

```
list1=[i**2 for i in range(1, 51)]  
print(list1)
```

Output:

```
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361,  
400, 441, 484, 529, 576, 625, 676, 729, 784, 841, 900, 961, 1024, 1089, 1156, 1225,  
1296, 1369, 1444, 1521, 1600, 1681, 1764, 1849, 1936, 2025, 2116,  
2209, 2304, 2401, 2500]
```

Assignment 18

Objective: Write a python program to compute simple interest and compound interest.

Code:

```
p=int(input("Enter Principal Amount : "))
r=int(input("Enter Rate of Interest (in %) : "))
t=int(input("Enter Time period (in years) : "))
simple_interest=(p*r*t)/100
print("Simple Interest for the given data is", simple_interest)
amt=p*((1+(r/100))**t)
compound_interest= round(amt-p, 2)
print("Compound Interest for the given data is", compound_interest)
```

Input:

```
Enter Principal Amount : 1000
Enter Rate of Interest (in %) : 10
Enter Time period (in years) : 2
```

Output:

```
Simple Interest for the given data is 200.0
Compound Interest for the given data is 210.0
```

Assignment 19

Objective: Write a python program that has a list ['a','bb','ccc','dddd',...] that ends with 26 copies of the letter z.

Code:

```
list1 = [chr(x)*(x-96) for x in range(97, 123)]  
print(list1)
```

Output:

```
['a', 'bb', 'ccc', 'dddd', 'eeeee', 'ffffff', 'ggggggg', 'hhhhhhh', 'iiiiiii',  
'jjjjjjjj', 'kkkkkkkkkk', 'llllllllll', 'mmmmmmmmmm', 'nnnnnnnnnnnn',  
'oooooooooooo', 'pppppppppppppppp', 'qqqqqqqqqqqqqqqq', 'rrrrrrrrrrrrrrrrrr',  
'ssssssssssssssssss', 'tttttttttttttttttt', 'uuuuuuuuuuuuuuuuuu',  
'vvvvvvvvvvvvvvvvvvvv', 'wwwwwwwwwwwwwwwwwwww', 'xxxxxxxxxxxxxxxxxxxxxx',  
'yyyyyyyyyyyyyyyyyyyy', 'zzzzzzzzzzzzzzzzzzzzzzzzzzzz']
```

Assignment 20

Objective: Given a nested tuple [eg. t=((1,2),(3,4.15,5.15),(7,8,12,15))], write a program that displays the mean of individual elements of tuple tup1 and then displays the mean of the computed means.

Code:

```
pairs=eval(input("Enter a tuple which contains a tuple of numbers : "))
means=[]
total=0

for tup in pairs:
    sum=0
    for i in tup:
        sum+=i
    mean=(sum/(len(tup)))
    print("Mean of", tup, "is", mean)
    means.append(mean)

for mean in means:
    total+=mean
mean=(total/(len(means)))
print("\nMean of means is",mean)
```

Input:

Enter a tuple which contains a tuple of numbers :
((1,2,3),(4,5,9),(2,4,16,24),(60,80,76))

Output:

Mean of (1, 2, 3) is 2.0
Mean of (4, 5, 9) is 6.0
Mean of (2, 4, 16, 24) is 11.5
Mean of (60, 80, 76) is 72.0

Mean of means is 22.875

Assignment 21

Objective: Write a python program to print the structure.

```
*
* *
* * *
* * * *
* * *
* *
*
```

Code:

```
rows = 7
mid = int(rows/2)+1
for i in range(1, mid+1):
    for j in range(1, i+1):
        print('*', end=' ')
    print()
for i in range(mid+1):
    for j in range(0, mid-i-1):
        print('*', end=' ')
    print()
```

Output:

```
*
* *
* * *
* * * *
* * *
* *
*
```

Assignment 22

Objective: Write a python program to print the structure.

```
*
*  *
*   *
*    *
*   *
*  *
*
```

Code:

```
rows = 7
mid = int(rows/2)+1
print("")
for i in range(1, mid):
    print(""+i*"  "+"*")
for i in range(rows-mid-1,0,-1):
    print(""+i*"  "+"*")
print("")
```

Output:

```
*
*  *
*   *
*    *
*   *
*  *
*
```

Assignment 23

Objective: Given the dictionary `x= {k1:'v1', 'k2': 'v2', 'k3': 'v3'}`, create a list with the opposite mapping, i.e., write a program to create a dictionary as : `{v1:'k1', 'v2': 'k2', 'v3': 'k3'}`

Code:

```
dict1={"k1":"v1","k2":"v2","k3":"v3"}
dict2={}
for key, value in dict1.items():
    dict2[value] = key
print("Original Dictionary is",dict1)
print("Inverted Dictionary is",dict2)
```

Output:

```
Original Dictionary is {'k1': 'v1', 'k2': 'v2', 'k3': 'v3'}
Inverted Dictionary is {'v1': 'k1', 'v2': 'k2', 'v3': 'k3'}
```


Assignment 24

Objective: Given list of integers, write a python program to find those which are palindromes.

Code:

```
list1=eval(input("Enter a list of numbers : "))
for i in list1:
    i = str(i)
    if i == i[::-1]:
        print(i,"is palindrome")
```

Input:

Enter a list of numbers : [123, 456, 789, 121, 12345678987654321, 324423]

Output:

```
121 is palindrome
12345678987654321 is palindrome
324423 is palindrome
```

Assignment 25

Objective: Write a program to print a tuple containing first n terms of Fibonacci series.

Code:

```
n = int(input('n = '))
a, b = 0, 1
fib = [a]
for i in range(n):
    fib.append(b)
    a, b = b, a+b
print(tuple(fib))
```

Input:

n = 15

Output:

(0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610)

Assignment 26

Objective: Write a program to print a given string in the following way.

```
a         f
b         i
c         h
d     g
e f
```

Code:

```
l = input('Enter a string: ')
n = int(len(l) / 2)
j = n-1
for i in range(1, n+1):
    print(' '*(i-1) + l[i-1] + ' '*(2*j+1) + l[-i])
    j -= 1
if len(l) % 2 == 1:
    print(' '*(n) + l[n])
```

Input:

Enter a string: kingdomcome

Output:

```
k         e
i         m
n         o
g     c
d m
o
```

Input:

Enter a string: darkinside

Output:

```
d         e
a         d
r         i
k     s
i n
```

Assignment 27

Objective: Write a program that, from two dictionaries, prints the keys which have same values, along with the value.

Code:

```
d1 = eval(input('Enter dict 1: '))
d2 = eval(input('Enter dict 2: '))
d3 = {y: x for x, y in d2.items()}

for k1, val in d1.items():
    if val in d2.values():
        key_in_d2 = d3[val]
        print(f'{k1} and {key_in_d2} have the same value {val}')
```

Input:

```
Enter dict 1: {1: 'a', 2: 'b', 3: 'c', 7: 'e'}
Enter dict 2: {4: 'd', 5: 'b', 6: 'c', 8: 'f'}
```

Output:

```
2 and 5 have the same value b
3 and 6 have the same value c
```

Assignment 28

Objective: Repeatedly ask the user to enter the team name and how many games the team has won and how many they lost. Store this information in a dictionary where the keys are the team names and the values are lists of the form [wins, losses].

(a) Using the dictionary created above, allow the user to enter a team name and print out the team's winning percentage.

(b) Using the dictionary, show all those teams that have winning records.

Code:

```
teams={}
tnum=int(input("Enter number of teams : "))

for i in range(tnum): # adding data
    tname=input("Enter a team name : ")
    wins=int(input("Enter number of matches won : "))
    losses=int(input("Enter number of matches lost : "))
    teams[tname]=[wins,losses]

# printing collected data
print('\nTeam data')
print(teams)

# (a) Get winnig percentage
tnuser=input("\nEnter a team\'s name from the list above :")
x = teams.get(tnuser)
perc = round((x[0]*100)/sum(x), 2)
print(f'Win percentage of {tnuser} is {perc}%\n')

# (b) teams that have winning records
print('Teams with winning records: ')
for key, value in teams.items():
    if value[0] > value[1]:
        print(f'{key} with {value[0]} wins')
```

Output:

```
Enter number of teams : 3
Enter a team name : lksec
Enter number of matches won : 10
```

Enter number of matches lost : 2
Enter a team name : mayo
Enter number of matches won : 6
Enter number of matches lost : 8
Enter a team name : modern
Enter number of matches won : 9
Enter number of matches lost : 7

Team data

```
{"lksec": [10, 2], "mayo": [6, 8], "modern": [9, 7]}
```

Enter a team's name from the list above :lksec
Win percentage of lksec is 83.33%

Teams with winning records:

lksec with 10 wins
modern with 9 wins

Assignment 29

Objective: Write a python program to input a string and returns two strings, one containing original string's values at odd index values and other containing original string's values at even index values.

Code:

```
string=input("Enter string : ")

a, b = '', ''

for i in range(len(string)):
    if i%2 == 0:
        a += string[i]
    else:
        b += string [i]

print("values at odd index =",a)
print("values at even index =",b)
```

Input:

Enter string : bohemian

Output:

values at odd index = bhma
values at even index = oein

Assignment 30

Objective: Write a program that reads a line and a substring. It should then display the number of occurrence of given substring in the line.

Code:

```
line=input("Enter a line: ")
sub=input("Enter a substring: ")
end=len(line)
lensub=len(sub)
start=0
count=0
while start<end:
    pos=line.find(sub,start,end)
    if pos!=-1:
        count+=1
        start=lensub+pos
    else:
        break
    if start>=end:
        break
print(f'Number of occurrences = {count}')
```

Input:

```
Enter a line: there are so many people in house, so many that one will wonder how
so many are there
Enter a substring: so
```

Output:

```
Number of occurrences = 3
```


MySQL

TABLE: gym

ICODE	INAME	PRICE	BRANDNAME
G101	Power Fit Exerciser	20000	Power Gynea
G102	AquaFit Hand Grip	1800	Reliable
G103	Cycle Bike	14000	Ecobike
G104	Protoner Extreme Gym	30000	Coscore
G105	Message Belt	5000	Message Expert
G106	Cross Trainer	13000	GTC Fitness

Assignment 31

Objective: Write SQL code to create the above table with the following constraints:

- ICODE – PRIMARY KEY
- INAME – NOT NULL
- PRICE – should be > 500

Code:

```
CREATE TABLE test(
  icode CHAR(4) PRIMARY KEY,
  iname VARCHAR(20) NOT NULL,
  price int CHECK (price > 500),
  brandname VARCHAR(20)
);
DESC gym;
```

Table Description:

```
mysql> desc gym;
```

Field	Type	Null	Key	Default	Extra
icode	char(4)	NO	PRI	NULL	
iname	varchar(20)	NO		NULL	
price	int(11)	YES		NULL	
brandname	varchar(20)	YES		NULL	

Assignment 32

Objective: Write SQL code to insert the given values into the table.

Code:

```
insert into gym values('G101','Power Fit Exerciser',20000,'Power Gynea')
insert into gym values('G102','Aquafit Hand Grip',1800,'Reliable')
insert into gym values('G103','Cycle Bike', 14000,'Ecobike')
insert into gym values('G104','Protoner Extreme Gym',30000 , 'Coscore')
insert into gym values('G105','Message Belt ',5000,'Message Expert')
insert into gym values('G106','Cross Trainer',13000,'GTC Fitness')
SELECT * FROM gym;
```

Table:

```
mysql> select * from gym;
```

icode	iname	price	brandname
G101	Power Fit Exerciser	20000	Power Gynea
G102	Aquafit Hand Grip	1800	Reliable
G103	Cycle Bike	14000	Ecobike
G104	Protoner Extreme Gym	30000	Coscore
G105	Message Belt	5000	Message Expert
G106	Cross Trainer	13000	GTC Fitness

Assignment 33

Objective: Write SQL code to do the following:

- (a) display the names of all the items whose name starts with "A"

Code:

```
SELECT iname FROM gym WHERE iname LIKE 'A%';
```

Output:

iname
AquaFit Hand Grip

- (b) Write SQL code to display ICODEs and INAMEs of all items, whose Brandname is Reliable or Coscore.

Code:

```
SELECT iname FROM gym WHERE iname LIKE 'A%';
```

Output:

icode	iname
G102	AquaFit Hand Grip
G104	Protoner Extreme Gym

Assignment 34

Objective: Write SQL code to change the Brandname to "Fit Trend India" of the item, whose ICODE as "G101".

Code:

```
update gym
set brandname='Fit Trend India'
```

```
where icode='g101';
select * from gym where icode='g101';
```

Table:

icode	iname	price	brandname
G101	Power Fit Exerciser	20000	Fit Trend India

Assignment 35

Objective: Select iname, icode, brandname and arrange them in order of expensive to cheaper.

Code:

```
select * from gym
order by price desc;
```

Table:

icode	iname	price	brandname
G104	Protoner Extreme Gym	30000	Coscore
G101	Power Fit Exerciser	20000	Fit Trend India
G103	Cycle Bike	14000	Ecobike
G106	Cross Trainer	13000	GTC Fitness
G105	Message Belt	5000	Message Expert
G102	Aquafit Hand Grip	1800	Reliable

TABLE: club

COACH_ID	COACHNAME	AGE	SPORTS	DATOFAPP	PAY	SEX
1	KUKREJA	35	KARATE	27/03/1996	1000	M
2	RAVINA	34	KARATE	20/01/1998	1200	F
3	KARAN	34	SQUASH	19/02/1998	2000	M
4	TARUN	33	BASKETBALL	01/01/1998	1500	M
5	ZUBIN	36	SWIMMING	12/01/1998	750	M
6	KETAKI	36	SWIMMING	24/02/1998	800	F
7	ANKITA	39	SQUASH	20/02/1998	2200	F
8	ZAREEN	37	KARATE	22/02/1998	1100	F
9	KUSH	41	SWIMMING	13/01/1998	900	M
10	SHAILYA	37	BASKETBALL	19/02/1998	1700	M

Assignment 36

Objective: Write SQL code to create the above table.

Code:

```
create table club(
coach_id int primary key,
coach_name varchar(20),
age int,
sports varchar(20),
date_of_app date,
pay int,
sex char(1) check (sex in ('F', 'M'))
);
DESC club;
```

Table:

Field	Type	Null	Key	Default	Extra
coach_id	int(11)	NO	PRI	NULL	
coach_name	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	
sports	varchar(20)	YES		NULL	
date_of_app	date	YES		NULL	
pay	int(11)	YES		NULL	
sex	char(1)	YES		NULL	

Assignment 37

Objective: Write SQL code to show all information about the swimming coaches in the club.

Code:

```
select * from club
where sports='SWIMMING';
```

Table:

coach_id	coach_name	age	sports	date_of_app	pay	sex
5	ZUBIN	36	SWIMMING	1998-01-12	750	M
6	KETAKI	36	SWIMMING	1998-02-24	800	F
9	KUSH	41	SWIMMING	1998-01-13	900	M

Assignment 38

Objective: Write SQL code to list names of all coaches with their date of appointment (DATE_OF_APP) in descending order.

Code:

```
select coach_name, date_of_app
from club
order by date_of_app desc;
```

Table:

coach_name	date_of_app
KETAKI	1998-02-24
ZAREEN	1998-02-22
ANKITA	1998-02-20
KARAN	1998-02-19
SHAILYA	1998-02-19
RAVINA	1998-01-20
KUSH	1998-01-13
ZUBIN	1998-01-12
TARUN	1998-01-01
KUKREJA	1996-03-27

Assignment 39

Objective: Write SQL code to :-

(a) Display a report, showing coachname, pay, age and bonus(15% of pay) for all the coaches.

Code:

```
select coach_name, pay, age, (15/100)*pay "bonus"
from club;
```

Table:

coach_name	pay	age	bonus
KUKREJA	1000	35	150.0000
RAVINA	1200	34	180.0000
KARAN	2000	34	300.0000
TARUN	1500	33	225.0000
ZUBIN	750	36	112.5000
KETAKI	800	36	120.0000
ANKITA	2200	39	330.0000
ZAREEN	1100	37	165.0000
KUSH	900	41	135.0000
SHAILYA	1700	37	255.0000

(b) Increase the salary of coaches by 25% whose DATE_OF_APP is till 31st January,1998.

Code:

```
update club
set pay = pay+(25/100)*pay
where date_of_app < '1998-01-31';
```

Table Before:

coach_name	pay	date_of_app
KUKREJA	1000	1996-03-27
RAVINA	1200	1998-01-20
TARUN	1500	1998-01-01
ZUBIN	750	1998-01-12
KUSH	900	1998-01-13

Table After:

coach_name	pay	date_of_app
KUKREJA	1250	1996-03-27
RAVINA	1500	1998-01-20
TARUN	1875	1998-01-01
ZUBIN	938	1998-01-12
KUSH	1125	1998-01-13

Assignment 40

Objective: Write SQL code to display the names of all the coaches whose length of name is 6.

Code:

```
select coach_name
from club
where coach_name like '_____';
```

Table:

coach_name
RAVINA
KETAKI
ANKITA
ZAREEN