

PTA questions:

1. What will be the output of the following python code

```
Str1="Madurai"  
print(Str*3)
```

Output

MaduraiMaduraiMadurai

2. Write execution table for the following Python code.

```
Marks = [10, 20, 30, 40]  
i = 0  
sum=0  
while i < 4:  
    sum+= Marks[i]  
    i +=1
```

Execution Table

S.NO	i	i<4	Marks	Sum	i+1
1	0	0<4(True)	10	10	1
2	1	1<4(True)	20	30	2
3	2	2<4(True)	30	60	3
4	3	3<4(True)	40	100	4
5	4	4<4(False)			

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3. Find the output of the following Python code

```
class Sample:  
    num=0  
    def __init__(self, var):  
        Sample.num+=1  
        self.var=var instance variable  
        print("The object value is = ", self.var)  
        print("The count of object created = ", Sample.num)  
S1=Sample(15)  
S2=Sample(35)  
S3=Sample(45)
```

Output:

The object value is =15
The count of object created =1
The object value is =35
The count of object created =2
The object value is =45
The count of object created =3

4. What will be the output of the following snippet?

```
Mydict={chr(x):x for x in range(97,102)}  
print(Mydict)
```

Output

{'a': 97, 'b': 98, 'c': 99, 'd': 100, 'e': 101}

```
5. A={x*3 for x in range (1,6)}  
   B={y*2 for y in range (1,10,2)}  
print(A)  
print(B)  
print(A|B)  
print(A-B)  
print(A&B)  
print(A^B)
```

Output:

{3,6,9,12,15}
{1,9,25,49,81}
{1,3,6,9,12,15,25,49,81}
{3,6,12,15}
{9}
{1,3,6,12,15,25,49,81}

6. What will be the output of the following snippet?

```
set_A={'A', 2, 4, 'D'}
set_B={'A', 'B', 'C', 'D'}
print(set_A & set_B)
```

Output:
{'A', 'D'}

7. Rewrite the following python program to get the given output

Output:

Enter Radius: 5
The Area = 78.5
The Circumference = 31.40

CODE

```
class Circle()
pi=3.14
def __init__(self,radius):
    self=radius
DEF area(SELf):
    Return
    Circle.pi+(self.radius*2)
Def circumference(self):
Return 2*Circle.pi*self.radius
r=input("Enter Radius= ")
C=Circle(r)
print("The Area =",C.area())
print("The Circumference =", C)
```

8. What will be the output of the following python snippet?

```
Str1="THOLKAPPIYAM"
```

(i)print(Str1[4:]) (ii)print(Str1[4::2]) (iii)print(Str1[::3]) (iv)print(Str1[::-3])

Output:

(i) KAPPIYAM (ii)KPIA (iii)TLPY (iv)MIAO

9. What will be the output of the following Python program?

```
Str1=="welcome"
Str2=="to school"
Str3=Str1[:3]+Str2[len(Str2)-1:]
```

Output: well

10. What will be the output of the following Python program?

```
N = []
for x in range(1,11):
    N.append(x)
Num=tuple(N)
print(Num)
for index, i in enumerate(N):
    if(i%2==1):
        del Num[index]
```

print(N) **Output:** [2,4,6,8,10]

11. What will be the output of the following snippet?

```
alpha=list(range(65,70)):
for x in alpha:
```

print(chr(x),end='\t')

Output: A B C D E

12. What will be the output of the following print statements?

```
>>>Mytuple=tuple([x**2 for x in range(2,11,2)])
```

(i)>>>print(Mytuple[2:3]) (ii)>>>print(Mytuple[3:]) (iii)>>>print(Mytuple[:])

Output:

(i) (36,) (ii) (64,100) (iii) (4,16,36,64,100)

Common Exam questions

1. Consider the following student table. Write sql command for the questions(i) to (v)

Roll No.	Name	Group
1001	Ganesh	A1

kindly send me your key Answers to our email id - padasalai.net@gmail.com

1002	Kumar	A2
1003	Mani	B1
1004	Raju	A1
1005	Thulasi	A2
1006	Geetha	B1
1007	Latha	A1
1008	Banu	A2
1009	Kavya	B1

- To display the details of all students in ascending order of name
- To display all students in A2 group
- To display the details group wise
- To add new row
- To remove students who are in B1 group

Sql command

- SELECT * FROM student ORDER BY Name ASC;
 - SELECT * FROM student GROUP BY Name A2;
 - SELECT * FROM student GROUP BY name Group;
 - INSERT INTO student values(1010, 'Raj', 'A1');
 - DELETE FROM student WHERE Group=B1;
2. Mylist=[10,20,30,40,50,60,70,80,90,100]

Write the python commands for the following based on above list.

- To print all elements in list
- Find list length
- Add multiple elements [110,120,130]
- Delete from fourth element to seventh element
- Delete entire list

python commands :

- print(Mylist)
- len(Mylist)
- Mylist.extend([110,120,130])
- del Mylist[3:7]
- del(Mylist)

Chennai District

First Revision question papers -2024

1. Assume a=97 and b=35 Evaluate the following logical expressions:

- a>b or a==b
- a>b and a==b
- not a>b

Output: (i) True (ii) False (iii) False

2. >>>a=(10,)
>>>type(a)

What will be returned by the above given type()?

Ans: <class 'tuple'>

Half yearly question papers -2024

3. Evaluate the following python statements and what will be the value of m?

a,b=30,20

m=a if a<b else b

OUTPUT: 20

4. Fill in the blank with suitable python code the get the output:[12,23,36]

MyList=[36,23,12]

.....

print(MyList) python code: Mylist.reverse()

5. Write a SQL statement to the followings:

- To create 'School ' database
- To create 'student' table with the following attributes.
 - Admno-Int(5)-Primary Key constraint,
 - SName-varchar(20)-Not null,
 - DOB-date,
 - City-varchar(15)-default-'Chennai '
 - Marks-int(3)
- To add 3 students details for all the columns
- To change the column name 'City ' as 'Town '
- To view all the records in descending order

SQL statement

i) CREATE DATABASE School

ii) CREATE TABLE student1(Admno int(5) PRIMARY KEY, sname varchar(20) NOTNULL, dob

date, city varchar(15) DEFAULT="Chennai" , marks int(3));
 iii) INSERT INTO `student` (`Admno`, `sname`, `dob`, `marks`) VALUES ('1001', 'A', '2013-10-05', '85')
 INSERT INTO `student` (`Admno`, `sname`, `dob`, `marks`) VALUES ('1002', 'B', '2013-11-06', '85')
 INSERT INTO `student` (`Admno`, `sname`, `dob`, `marks`) VALUES ('1003', 'C', '2013-12-07', '85')
 IV) ALTER TABLE Student CHANGE City Town varchar(15);
 v) SELECT * FROM student ORDER BY Admno DESC;

6. What will be the output of the following python program

Tup1 = (12, 78, 91, 'T', 'E', 3.14, 69.48)

(i) print(Tup1) (ii) print(Tup1[2:5]) (iii) print(Tup1[:5]) (iv) print(Tup1[4:]) (v) print(Tup1[:])

Output:

(i) (12, 78, 91, 'T', 'E', 3.14, 69.48) (ii) (91, 'T', 'E') (iii) (12, 78, 91, 'T', 'E') (iv) ('E', 3.14, 69.48)

(v) (12, 78, 91, 'T', 'E', 3.14, 69.48)

7. Evaluate the following function a) math.ceil(3.5) b) abs(-3.2) c) pow(2, 0)

8. What will be the output of the given python program? [Madurai District]

str1="Computer "

print(str1+"world ")

str1+="Science "

print(str1)

print(str1*3)

OUTPUT:

Computer world

Computer Science

Computer Science Computer Science Computer Science

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