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CLASS: 12th A

ROLL No: 6

CS PROJECT Online Examination System

Examination System

```
import mysql.connector as ms
import time
import random

d = ms.connect(
  host="localhost",
  user="root",
  password="123456",charset="utf8"
)


c = d.cursor()

c.execute("create database if not exists
ONLINE_EXAMINATION;")
c.execute("use ONLINE_EXAMINATION;")
c.execute("create table if not exists QUESTIONS(QID
int, question varchar(100), A varchar(100), B
varchar(100), C varchar(100), D varchar(100), answer
char(1));")
c.execute("create table if not exists STUDENTS(SID
int, name varchar(20),date_of_exam char(20), ans1
char(1), ans2 char(1), ans3 char(1), ans4 char(1),
ans5 char(1), ans6 char(1), ans7 char(1), ans8
char(1), ans9 char(1), ans10 char(1),score int);")

d.commit()

idx = [0,1,2,3,4,5,6,7,8,9]

def check():
    random_idx = random.choice(idx)
    idx.remove(random_idx)
    return random_idx


def generate_Ques():
    k1 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(1,"
What is moon", "Planet", "Satellite", "Rock",
"Animal", "B")
```

```
    k2 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(2,"
What is tiger", "Planet", "Satellite", "Rock",
"Animal", "D")
    k3 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(3,"
What is Rose", "Planet", "Flower", "Rock", "Animal",
"B")
    k4 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(4,"
What is Sun", "Star", "Satellite", "Rock", "Animal",
"A")
    k5 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(5,"
What is water", "Solid", "liquid", "Rock", "Animal",
"B")
    k6 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(6,"
What is Jupiter", "Planet", "Satellite", "Rock",
"Animal", "A")
    k7 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(7,"
What is Quartz", "Planet", "Satellite", "Rock",
"Animal", "C")
    k8 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(8,"
What is Titan", "Planet", "Satellite", "Rock",
"Animal", "B")
    k9 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(9,"
What is Human", "Planet", "Satellite", "Rock",
"Animal", "D")
    k10 = "insert into QUESTIONS
values({},'{}','{}','{}','{}','{}','{}')".format(10,
"What is time", "Planet", "Satellite", "None",
"Animal", "C")

    c.execute(k1)
    c.execute(k2)
    c.execute(k3)
    c.execute(k4)
    c.execute(k5)
    c.execute(k6)
    c.execute(k7)
```

```
    c.execute(k8)
    c.execute(k9)
    c.execute(k10)

    d.commit()

##generate_Ques()

print("1) Press 1 for admin")
print("2) Press 2 for student")

mode = int(input("Enter: "))

if mode==1:

    while(True):
    pwd = input("Enter admin password: ")
    if pwd=="admin":
        break
    else:
        print("!!!Wrong password!!!")

    while(True):
    print()
    print("Menu:-\n")
    print("1) Click 1 to view the questions")
    print("2) Click 2 to add more questions")
    print("3) Click 3 to modify answer")
    print("4) Click 4 to exit")
    print()

    try:
        ch = int(input("Enter your choice: "))
        print()

        if ch==1:
            print("The questions are:\n\n ")
##              c.execute("select * from
QUESTIONS;")
##              for x in c:
##                  print(x)

            ques = []
            q = "select question from QUESTIONS";
```

```
            c.execute(q)
            for x in c:
                ques.append(x[0])

            options = []

            for w in range(10):

                op = []
                oa = "select A from QUESTIONS where
QID=%s"%(w+1)
                c.execute(oa)

                for x in c:

                    op.append(x[0])

                ob = "select B from QUESTIONS where
QID=%s"%(w+1)
                c.execute(ob)

                for x in c:
                    op.append(x[0])

                oc = "select C from QUESTIONS where
QID=%s"%(w+1)
                c.execute(oc)

                for x in c:

                    op.append(x[0])

                od = "select D from QUESTIONS where
QID=%s"%(w+1)
                c.execute(od)

                for x in c:
                    op.append(x[0])

                options.append(op)

            answers = []
            a = "select answer from QUESTIONS";
            c.execute(a)
```

```
for x in c:
    answers.append(x[0])

cnt = 0

print("\nQuestion 1")

print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()
cnt+=1

print("\nQuestion 2")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1

print("\nQuestion 3")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
```

```
print()

cnt+=1

print("\nQuestion 4")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1

print("\nQuestion 5")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1

print("\nQuestion 6")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()
```

```
cnt+=1

print("\nQuestion 7")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1

print("\nQuestion 8")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1

print("\nQuestion 9")
print(ques[cnt])

choice = options[cnt]
print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()
print("Correct Answer: ", answers[cnt])
print()

cnt+=1
```

```
            print("\nQuestion 10")
            print(ques[cnt])

            choice = options[cnt]
            print("Option A: ",choice[0])
            print("Option B: ",choice[1])
            print("Option C: ",choice[2])
            print("Option D: ",choice[3])
            print()
            print("Correct Answer: ", answers[cnt])
            print()

            cnt+=1

        elif ch==2:

            i = int(input("Enter question id: "))
            q = input("Enter question: ")
            o1 = input("Enter option A: ")
            o2 = input("Enter option B: ")
            o3 = input("Enter option C: ")
            o4 = input("Enter option D: ")
            print()
            ans = input("Enter correct
answer(A/B/C/D)")
            k = "insert into QUESTIONS values({},
'{}', '{}', '{}', '{}', '{}', '{}')".format(i, q,
o1, o2, o3, o4, ans)

            c.execute(k)
            d.commit()

        elif ch==3:

            i1 = int(input("Enter question id for
the question to be updated: "))
            qu = input("Enter new question: ")
            c1 = input("Enter option A: ")
            c2 = input("Enter option B: ")
            c3 = input("Enter option C: ")
            c4 = input("Enter option D: ")
            a = input("Enter new answer: ")
```

```
            l = "update QUESTIONS set answer='%s'
where QID=%s"%(a, i1)
            c.execute(l)
            d.commit()

            m = "update QUESTIONS set question='%s'
where QID=%s"%(qu, i1)
            c.execute(m)
            d.commit()

            n = "update QUESTIONS set A='%s' where
QID=%s"%(c1, i1)
            c.execute(n)
            d.commit()

            o = "update QUESTIONS set B='%s' where
QID=%s"%(c2, i1)
            c.execute(o)
            d.commit()
            p = "update QUESTIONS set C='%s' where
QID=%s"%(c3, i1)
            c.execute(p)
            d.commit()

            q = "update QUESTIONS set D='%s' where
QID=%s"%(c4, i1)
            c.execute(q)
            d.commit()

            print("Question updated
sucessfully....")

        elif ch==4:

            break
    except:
        print("_____Integer Value required_____")

elif mode==2:

    while True:

    print("Menu:-\n")
    print("1) Click 1 to attempt test")
```

```
    print("2) Click 2 calcute score")
    print("3) Click 3 to exit")
    print()

##      try:
    ch = int(input("Enter your choice: "))

    if ch==1:

        ques = []

##          print("The question are: ")
##          c.execute("select QID, question, A, B,
C, D from QUESTIONS;")
##          for x in c:
##              print(x)
##          print("Enter answers: ")

        i2 = int(input("Enter your id: "))
        na = input("Enter your name: ")
        da= input("Enter date of
examination(dd-mm-yyyy)")

        q = "select question from QUESTIONS";
        c.execute(q)
        for x in c:
            ques.append(x[0])

        options = []
        for w in range(10):
            op = []
            oa = "select A from QUESTIONS where
QID=%s"%(w+1)
            c.execute(oa)

            for x in c:
                op.append(x[0])

            ob = "select B from QUESTIONS where
QID=%s"%(w+1)
            c.execute(ob)

            for x in c:
                op.append(x[0])
```

```
            oc = "select C from QUESTIONS where
QID=%s"%(w+1)
            c.execute(oc)

            for x in c:
                op.append(x[0])
            od = "select D from QUESTIONS where
QID=%s"%(w+1)
            c.execute(od)

            for x in c:
                op.append(x[0])

            options.append(op)


        cnt = check()

        print("\nQuestion 1")
        print(ques[cnt])

        choice = options[cnt]

        print("Option A: ",choice[0])
        print("Option B: ",choice[1])
        print("Option C: ",choice[2])
        print("Option D: ",choice[3])
        print()

        a1 = input("Enter your answer(A/B/C/D): ")
        cnt = check()

        print("\nQuestion 2")
        print(ques[cnt])

        choice = options[cnt]

        print("Option A: ",choice[0])
        print("Option B: ",choice[1])
        print("Option C: ",choice[2])
        print("Option D: ",choice[3])
        print()
```

```
a2 = input("Enter your answer(A/B/C/D): ")
cnt = check()

print("\nQuestion 3")
print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a3 = input("Enter your answer(A/B/C/D): ")
cnt = check()

print("\nQuestion 4")
print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a4 = input("Enter your answer(A/B/C/D): ")
cnt = check()

print("\nQuestion 5")
print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a5 = input("Enter your answer(A/B/C/D): ")
cnt = check()
```

```
print("\nQuestion 6")
print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a6 = input("Enter your answer(A/B/C/D): ")
cnt = check()

print("\nQuestion 7")

print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a7 = input("Enter your answer(A/B/C/D): ")
cnt = check()

print("\nQuestion 8")
print(ques[cnt])

choice = options[cnt]

print("Option A: ",choice[0])
print("Option B: ",choice[1])
print("Option C: ",choice[2])
print("Option D: ",choice[3])
print()

a8 = input("Enter your answer(A/B/C/D): ")
cnt = check()
```

```
        print("\nQuestion 9")
        print(ques[cnt])

        choice = options[cnt]

        print("Option A: ",choice[0])
        print("Option B: ",choice[1])
        print("Option C: ",choice[2])
        print("Option D: ",choice[3])
        print()

        a9 = input("Enter your answer(A/B/C/D): ")
        cnt = check()

        print("\nQuestion 10")
        print(ques[cnt])

        choice = options[cnt]

        print("Option A: ",choice[0])
        print("Option B: ",choice[1])
        print("Option C: ",choice[2])
        print("Option D: ",choice[3])
        print()

        a10 = input("Enter your answer(A/B/C/D): ")



        sc=10
        m = "insert into STUDENTS values({},'{}',
'{}', '{}', '{}', '{}', '{}', '{}','{}', '{}', '{}',
'{}',
'{}',{})".format(i2,na,da,a1,a2,a3,a4,a5,a6,a7,a8,a9
,a10,sc)
        c.execute(m)
        d.commit()

        ans_list = [a1,a2,a3,a4,a5,a6,a7,a8,a9,a10]
        que_list=[]

        ca = "select answer from QUESTIONS";
        c.execute(ca)
```

```
        for x in c:

            que_list.append(x[0])
        marks=0

        for w in range(10):
            if
(ans_list[w]).lower==(que_list[w]).lower:
                marks+=1

        k = "update STUDENTS set score = %s where
SID = %s"%(marks, i2)
        c.execute(k)
        d.commit()

    elif ch==2:

        try:
            i = int(input("Enter your id: "))
            ma = "select score from STUDENTS where
SID=%s"%(i)
            c.execute(ma)

            marks=0
            name = ""
            date_of_exam = ""

            for x in c:
                marks = x

            na = "select name from STUDENTS where
SID=%s"%(i)
            c.execute(na)
            for x in c:
                name = x

            da = "select date_of_exam from STUDENTS
where SID=%s"%(i)
            c.execute(da)
            for x in c:
                date_of_exam = x

            print()
            print("Student ID: ", i)
```

```
            print("Student Name: ", name[0])
            print("Date of Examination: ",
date_of_exam[0])
            print("Marks obtained: ", marks[0])
            print()

        except:
            print("_____Integer Value
required_____")

    elif ch==3:
        break
##      except:
##          print("_____Integer Value
required_____")
else:
    print("INVALID CHOICE")
```

Output

```
1) Press 1 for admin
2) Press 2 for student
Enter: 1
Enter admin password: admin

Menu:-

1) Click 1 to view the questions
2) Click 2 to add more questions
3) Click 3 to modify answer
4) Click 4 to exit

Enter your choice: 1

The questions are:



Question 1
What is moon
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Correct Answer:  B


Question 2
What is tiger
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Correct Answer:  D


Question 3
What is Rose
Option A:  Planet
Option B:  Flower
```

Option C: Rock
Option D: Animal

Correct Answer: B

Question 4
What is Sun
Option A: Star
Option B: Satellite
Option C: Rock
Option D: Animal

Correct Answer: A

Question 5
What is water
Option A: Solid
Option B: liquid
Option C: Rock
Option D: Animal

Correct Answer: B

Question 6
What is Jupiter
Option A: Planet
Option B: Satellite
Option C: Rock
Option D: Animal

Correct Answer: A

Question 7
What is Quartz
Option A: Planet
Option B: Satellite
Option C: Rock
Option D: Animal

Correct Answer: C

```
Question 8
What is Titan
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Correct Answer:  B


Question 9
What is Human
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Correct Answer:  D


Question 10
What is time
Option A:  Planet
Option B:  Satellite
Option C:  None
Option D:  Animal

Correct Answer:  C


Menu:-

1) Click 1 to view the questions
2) Click 2 to add more questions
3) Click 3 to modify answer
4) Click 4 to exit

Enter your choice: 3

Enter question id for the question to be updated: 6
Enter new question: What is a finger
Enter option A: BodyPart
```

```
Enter option B: Animal
Enter option C: Plant
Enter option D: Nothing
Enter new answer: A
Question updated sucessfully....

Menu:-

1) Click 1 to view the questions
2) Click 2 to add more questions
3) Click 3 to modify answer
4) Click 4 to exit

Enter your choice: 4
1) Press 1 for admin
2) Press 2 for student
Enter: 2
Menu:-

1) Click 1 to attempt test
2) Click 2 calcute score
3) Click 3 to exit

Enter your choice: 1
Enter your id: 2
Enter your name: Jay
Enter date of examination(dd-mm-yyyy)12-02-2022

Question 1
What is Human
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): A

Question 2
What is time
Option A:  Planet
Option B:  Satellite
Option C:  None
Option D:  Animal
```

```
Enter your answer(A/B/C/D): A

Question 3
What is tiger
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): B

Question 4
What is Rose
Option A:  Planet
Option B:  Flower
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): C

Question 5
What is moon
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): D

Question 6
What is Titan
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): A

Question 7
What is water
Option A:  Solid
Option B:  liquid
Option C:  Rock
Option D:  Animal
```

```
Enter your answer(A/B/C/D): B

Question 8
What is Sun
Option A:  Star
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): C

Question 9
What is a finger
Option A:  BodyPart
Option B:  Animal
Option C:  Plant
Option D:  Nothing

Enter your answer(A/B/C/D): A

Question 10
What is Quartz
Option A:  Planet
Option B:  Satellite
Option C:  Rock
Option D:  Animal

Enter your answer(A/B/C/D): A
Menu:-

1) Click 1 to attempt test
2) Click 2 calcute score
3) Click 3 to exit

Enter your choice: 2
Enter your id: 2

Student ID:  2
Student Name:  Jay
Date of Examination:  12-02-2022
Marks obtained:  2

Menu:-
```

```
1) Click 1 to attempt test
2) Click 2 calcute score
3) Click 3 to exit

Enter your choice: 3
```