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BATCH: 2021

ROLL NO: P218024

LAB TASK: 11

QUESTION1:

```
list1={"a": 2, "b": 4, "c": 5 , "d":6}
for key in list1:
    print("key :",key,"value :",list1[key])
    sum=0
    for i in list1.values():
        sum=sum+i
print("SUM of all item(values) in dictionary is =",sum)
if sum%2==0:
    print("SUM IS EVEN")
elif sum%2!=0:
    print("SUM IS ODD")
else:
    print("Nothing")
```

OUTPUT:

```
key : a value : 2
key : b value : 4
key : c value : 5
key : d value : 6
SUM of all item(values) in dictionary is = 17
SUM IS ODD
```

QUESTION2:

```
list1=(3,2,1)

product=1

for x in list1:

   product=product*x


print("Result of multiplying all number of given tuple is =",product)
```

OUTPUT:

```
Result of multiplying all number of given tuple is = 6
```

QUESTION3:

```
def search_element1(list1, list2):

   result=False

   for x in list1:

      for y in list2:

         if x==y:

            result=True

            return result

print(search_element1([1,2,3],[3,4,5]))
```

OUTPUT:

QUESTION4:

```
subject=int(input("enter number of subject"))

gradesPoints={"A":4.0, "A-": 3.67, "B+": 3.33, "B": 3.0, "B-": 2.67,"C+": 2.33,"C": 2.0,
"C-":1.67, "D+":1.33, "D": 1.0, "F":0}

grades=[]



sumGradeCreditHoursProduct=0.0

sumCreditHours=0.0

for i in range(1,5):

    grade=input(f"Enter the grade for subject {i}: ")

    hours=float(input(f"Enter the credit hours for subject {i}: "))

    sumGradeCreditHoursProduct+=gradesPoints[grade]*hours

    sumCreditHours+=hours



GPA=sumGradeCreditHoursProduct/sumCreditHours



print("Your GPA is=",GPA)
```

OUTPUT:

```
enter number of subject4
Enter the grade for subject 1: A-
Enter the credit hours for subject 1: 3
Enter the grade for subject 2: B+
Enter the credit hours for subject 2: 2
Enter the grade for subject 3: C-
Enter the credit hours for subject 3: 3
Enter the grade for subject 4: B-
Enter the credit hours for subject 4: 1
Your GPA is= 2.816666666666667
```