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Subject :- Modern programming Languages
(MPL)

Department :- Computer Science

Assignment :- Final - examination (summer)

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Hayatabad phase II, Peshawar

-: Q1 :-

Solution:-

class Restaurant():

def __init__(self, restaurant_name, cuisine_type):

self.restaurant_name = restaurant_name

self.cuisine_type = cuisine_type

def describe_restaurant(self):

print("The" + self.restaurant_name.title()

+ "restaurant is near swat.")

print("The restaurant's food is" + self.cuisine

_type.title())

def open_restaurant(self):

print("The" + self.restaurant_name.title()

+ "restaurant is open.")

~~print~~ restaurant = Restaurant('Alibaba'

, 'delicious')

```
print (restaurant.restaurant_name)
```

```
print (restaurant.cuisine_type)
```

```
restaurant.describe_restaurant()
```

```
restaurant.open_restaurant()
```

Output:-

Alibaba

delicious

The Alibaba restaurant is near Swat.

The restaurant's food is delicious

The Alibaba restaurant is open.

-:Q:-

Solution:-

making the first part of question

```
def make_albums(name, title):
```

```
    music_album = {"Artist name": name, "Album Title": title}
```

```
    return music_album
```

```
album1 = make_albums("Bruno mars", "Funk")
```

```
album2 = make_albums("Atif aslam", "dorie")
```

```
album3 = make_albums("Arijit", "Any")
```

```
print(album1)
```

```
print(album2)
```

```
print(album3)
```

second part making the number of tracks

```
def make_albums(name, title, tracks):
```

```
    music_album = {"Artist name": name,
```

```
                  "Album Title": title, "Number of tracks": tracks}
```

return music - album

```
album4 = make_album("Arijit", "Any", "10")  
print(album4)
```

Output:-

{ 'Artist name': 'Bruno mars', 'AlbumTitle': 'Funk' }

{ 'Artist name': 'Atif aalam', 'AlbumTitle': 'dorie' }

{ 'Artist name': 'Arijit', 'AlbumTitle': 'Any' }

{ 'Artist name': 'Arijit', 'AlbumTitle': 'Any1',

'Number of tracks': '10' }

∴ Q 3 :-

part (a)

Solution :-

```
rental_car = input("what kind of  
rental car you would like?")
```

```
print("Let me see if I can find you a  
" + rental_car + ".")
```

Outputs :-

what kind of rental car you would
like? Subaru

Let me see if I can find you a Subaru.

Q 3 :-

part (b)

Solution:-

```
Restaurant_seats = input("How many  
people are in your dinner group?")
```

```
Restaurant_seats = int(Restaurant_seats)
```

```
if Restaurant_seats > 8:
```

```
    print("You will have to wait for  
    a table, I am sorry!!!")
```

```
else
```

```
    print("Your table is ready.")
```

Outputs :-

```
How many people are in your  
dinner group? 8
```

```
Your table is ready.
```

-: Q 3 :-

Part (e)

Solution :-

```
 multiples & ten = input("Enter a number.")
```

```
 multiples & ten = int(multiples & ten)
```

```
 if multiples & ten % 10 == 0
```

```
     print(str(multiples & ten) + " is a  
           multiples & 10.")
```

```
 else
```

```
     print(str(multiples & ten) + " is not  
           a multiples & 10.")
```

Output :-

```
 Enter a number: 100
```

```
 100 is a multiple & 10
```


Q3:-

part (d)

Solution:-

```
Multiple - &-ten = input("Enter no")
```

```
Multiple - &-ten = int(Multiple - &-ten)
```

```
if Multiple - &-ten % 20 == 0
```

```
print (str(Multiple - &-ten) + " is a multiple")
```

```
else:
```

```
print ( " is not multiple - &-ten
```

outputs:-

```
Enter no 150
```

```
150 is not multiple - &-ten
```

Q3:-

part (e)

Solution:-

```
multiple & ten = input("Enter  
a number:")
```

```
multiple & ten = int(multiple & ten)
```

```
if multiple & % 10 == 0
```

```
print(str(multiple & ten) + " is a  
multiple & 10.")
```

```
else:
```

```
print(str(multiple & ten) + " is  
not a multiple & 10.")
```

Output:-

```
Enter a number : 144
```

```
144 is not multiple & 10
```

Q 3:-
part (f)

Solution:-

```
 multiples - & - ten = input("Enter a number")
```

```
 multiples - & - ten = int(multiples - & - ten)
```

```
 if multiples - & - ten % 10 == 0
```

```
     print(str(multiples - & - ten) + " is  
         a multiple of 10.")
```

```
 else:
```

```
     print(str(multiples - & - ten) + " is not  
         a multiple of 10.")
```

outputs:-

Enter a number: 155

155 is not multiple of 10

-:Q4:-

Solution:-

pizza_topping = []

while True:

topping = input("which toppings would
you like to add")

if topping == "quit":

value = False

break

else:

pizza_topping.append(topping)

Print("Adding" + topping)

Print("In In original form" + str(pizza_topping))

Print("In In sorted form" + str(sorted(pizza_topping)))

Print("In Reverse sorted" + str(sorted(pizza_topping, reverse = True)))

Outputs:-

which topping would you like to add
Adding ed

which topping would you like to add asd
Adding asd

which topping would you like to add qw
Adding qw

which topping would you like to add e
Adding e

which topping would you like to add asd
Adding Asd

which topping would you like to add quit

In original form ['ad', 'asd', 'qw', 'e', 'asd']

In sorted form ['ad', 'asd', 'asd', 'e', 'qw']

Reverse sorted ['qw', 'e', 'asd', 'asd', 'ad']

-3GS:-

Solution:-

```
river - Country = { "swat" : "Pakistan",  
                    "Sindh" : "Pakistan",  
                    "atlantic" : "Italy",  
                    "hind" : "india",  
                    "Kabul" : "afghanistan",  
                    "Kabul" : "Pakistan",  
                    "nelam" : "Pakistan",  
                    "Srivist" : "China",  
                    "Los Angeles" : "America",  
                    "Beijing" : "China",  
                    }
```

```
for key, value in river - Country.items():  
    print (key + " is situated in" + value)
```

```
for key in river - Country.keys():  
    print ("In These are the rivers" + key)
```

```
for value in river - Country.values():  
    print ("In These are the countries" + value)
```

outpuler-

Sindh is situated in Pakistan
 atlantic is situated in Italy
 hind is situated in India
 Kabul is situated in Pakistan
 nelam is situated in Pakistan
 Elixir is situated in China
 Jess angle is situated in America
 Beijing is situated in China

These are the rivers Swat

These are the river Sindh

these are the river atlantic

These are the river hind

These are the river Kabul

// // // river nelam

// // // river Elixir

// // // river Jess angle

// // // river Beijing

These are the countries Pakistan

// // countries Pakistan

// // countries Italy

// // countries India

// // countries Pakistan

// // countries Pakistan

// // countries China

// // countries America

// // countries China