

Q1-CODE:

```
Q1.py - C:\Users\muham\Desktop\ASSIGNMENT_04\Q1.py (3.8.0)
File Edit Format Run Options Window Help

person_dict={'first_name':'Hamza','last_name':'Khan',
            'age':20,'city':'Karachi'}

for key, value in person_dict.items():
    print(key,":",value)
print("\nAdd Qualification \n")
person_dict["qualification"]="Intermediate"
print('Qualification :',person_dict["qualification"])

print("\nUpdate Qualification \n")
person_dict["qualification"]="High Academic"
for key, value in person_dict.items():
    print(key,":",value)

print("\nDelete Qualification \n")
del person_dict["qualification"]
print(person_dict)
```

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OUTPUT:

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help

Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\muham\Desktop\ASSIGNMENT_04\Q1.py =====
first_name : Hamza
last_name : Khan
age : 20
city : Karachi

Add Qualification

qualification : Intermediate

Update Qualification

first_name : Hamza
last_name : Khan
age : 20
city : Karachi
qualification : High Academic

Delete Qualification

{'first_name': 'Hamza', 'last_name': 'Khan', 'age': 20, 'city': 'Karachi'}
>>>
```

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Q2-CODE:

```
Q2.py - C:\Users\muham\Desktop\ASSIGNMENT_04\Q2.py (3.8.0)
File Edit Format Run Options Window Help

cities={
    "Karachi":{
        "country":"Pakistan",
        "population":15741000,
        "fact":"Karachi is vital to Pakistan's economy, contributing 42 per cent of GDP,
        70 per cent of income tax revenue and 62 per cent of sales tax revenue"
    },
    "Lahore":{
        "country":"Pakistan",
        "population":12188000,
        "fact":"Lahore is the capital city of the Pakistani province of Punjab.
        It is the second largest and most populous city in Pakistan"
    },
    "Islamabad":{
        "country":"Pakistan",
        "population":1095064,
        "fact":"Islamabad is the capital of the top adventurous place Pakistan.This city
        is famous due to the many parks, forests, greenery, breathtaking sites, safety,
        high living standard, world fourth largest mosque and the Margalla Hills National park."
    }
}

for citykey,cityinfo in cities.items():
    print("\n"+citykey+"\n")
    for city in cityinfo:
        print(city,":",str(cityinfo[city]))

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```

OUTPUT:

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help

Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\muham\Desktop\ASSIGNMENT_04\Q2.py =====

Karachi

country : Pakistan
population : 15741000
fact : Karachi is vital to Pakistan's economy, contributing 42 per cent of GDP,
      70 per cent of income tax revenue and 62 per cent of sales tax revenue

Lahore

country : Pakistan
population : 12188000
fact : Lahore is the capital city of the Pakistani province of Punjab.
      It is the second largest and most populous city in Pakistan

Islamabad

country : Pakistan
population : 1095064
fact : Islamabad is the capital of the top adventurous place Pakistan.This city
      is famous due to the many parks, forests, greenery, breathtaking sites, safety,
      high living standard, world fourth largest mosque and the Margalla Hills National park.

>>> |

Ln: 27 Col: 4
```

Q3-CODE & OUTPUT:

```
Q3.py - C:\Users\muham\Desktop\ASSIGNMENT_04\Q3.py (3.8.0)
File Edit Format Run Options Window Help

con='y'
while con!='n':
    age=int(input("Enter age : "))
    if age>12:
        print("Ticket is 15$")
    elif age>=3:
        print("Ticket is 10$")
    else:
        print("Ticket is free")
    con=input("Are you want to take ticket y/n: ")

Python 3.8.0 Shell
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\muham\Desktop\ASSIGNMENT_04\Q3.py =====
Enter age : 2
Ticket is free
Are you want to take ticket y/n: y
Enter age : 4
Ticket is 10$
Are you want to take ticket y/n: y
Enter age : 14
Ticket is 15$
Are you want to take ticket y/n: n
>>> |

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Ln: 1 Col: 0
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```

Q4-CODE & OUTPUT:

```
Q4.py - C:\Users\muham\Desktop\ASSIGNMENT_04\Q4.py (3.8.0)
File Edit Format Run Options Window Help

def favorite_book(title):
    print(title)

book_title="One of my favorite books is Alice in Wonderland."
favorite_book(book_title)

Python 3.8.0 Shell
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\muham\Desktop\ASSIGNMENT_04\Q4.py =====
One of my favorite books is Alice in Wonderland.
>>> |

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```

Q5-CODE:

```
Q5.py - C:\Users\muham\Desktop\ASSIGNMENT_04\Q5.py (3.8.0)
File Edit Format Run Options Window Help
import random
a=0
Rand_Number=0
print('You Have 3 chances to guess the number\n')
Rand_Number=int(random.randrange(1,30))
while a<3:
    userNumber=int(input("Enter number between 1 and 30: "))
    a+=1
    if Rand_Number>userNumber:
        print("Hidden number is greater\n")
    elif Rand_Number<userNumber:
        print("Hidden number is Smaller\n")
    else:
        print("You guess the correct Number")
        break

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```

OUTPUT:

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:21:23) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\muham\Desktop\ASSIGNMENT_04\Q5.py =====
You Have 3 chances to guess the number

Enter number between 1 and 30: 23
Hidden number is Smaller

Enter number between 1 and 30: 12
Hidden number is Smaller

Enter number between 1 and 30: 8
Hidden number is Smaller

>>> Rand_Number
4
>>> |

Ln: 18 Col: 4
03:04 PM
01/12/2019
```