Program 5 (Code)

Program to create a binary file with name and roll number. Search for a given roll number and display the name, if not found, display appropriate messages.

code3.py > ...

```python
'''Program to create a binary file with name and roll number
Search for a given roll number and display the name, if not found, display appropriate message'''

import pickle
def write(file):
    f = open(file,'wb')
    while True:
        r = int(input("Enter Roll No.: "))
        n = input("Enter Name: ")
        Data = [r,n]
        pickle.dump(Data,f)
        ch = input("Want to enter more data? (Y/N)")
        if ch in "Nn":
            break
    f.close()

def search(file):
    found = 0
    rollno = int(input("Enter corresponding roll no: "))
    f = open(file,'rb')
    try:
        while True:
            rec = pickle.load(f)
            if rec[0]==rollno:
                print(rec[1])
                found = 1
                break
    except EOFError:
        f.close()
    if found == 0:
        print("no record found")
write("StudentDetails")
search("StudentDetails")
```

Program 5 (Output)

```
Enter Roll No.: 14023827
Enter Name: Toriyama
Want to enter more data? (Y/N)n
Enter corresponding roll no: 14002877
no record found
Enter Roll No.: 140238247
Enter Name: Akira
Want to enter more data? (Y/N)n
Enter corresponding roll no: 140238247
Akira
```

Program 6 (Code)

Program to create a binary file with roll number, name and marks. Input a roll number and update the marks.

code4.py > write

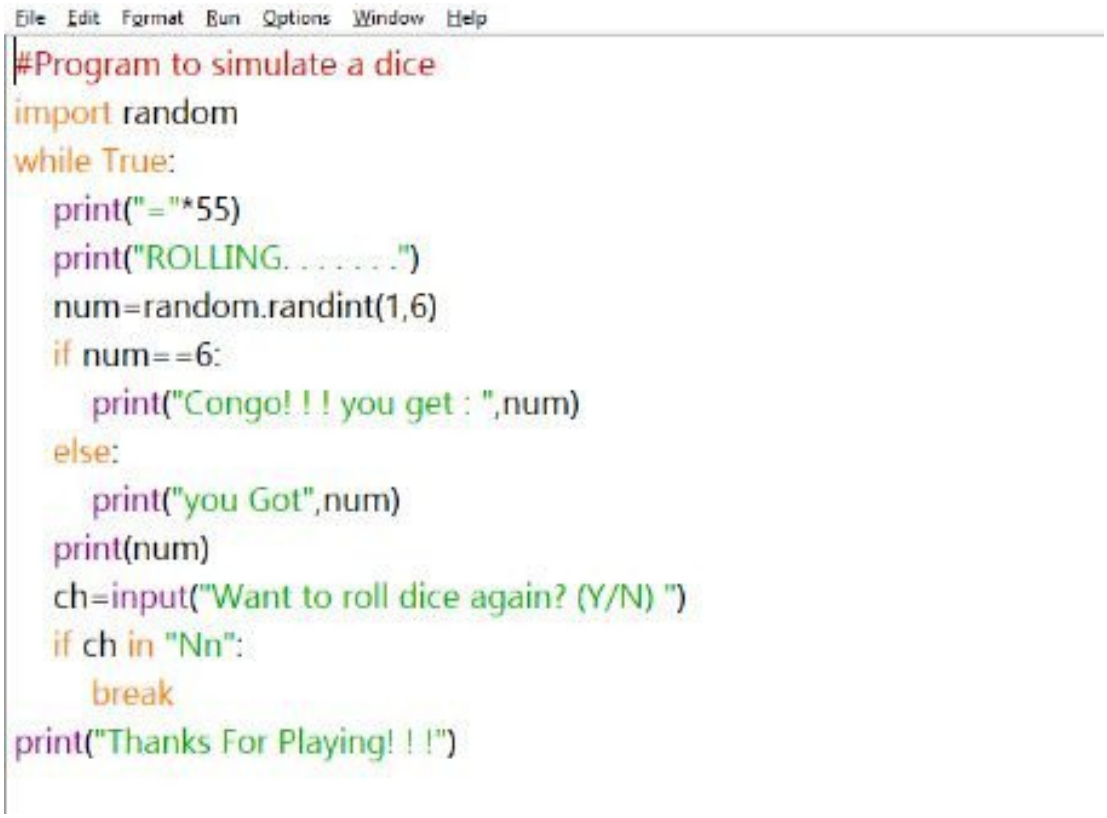
```
'''Program to create a binary file with roll no, name and marks;
Input a roll number and update the marks.'''
import pickle
def write(file):
    f = open(file,'wb')
    while True:
        r = int(input("Roll No.: "))
        n = input("Name: ")
        m = int(input("Marks: "))
        record = [r,n,m]
        pickle.dump(record,f)
        ch = input("Enter more records (Y/N) ")
        if ch in "Nn":
            break
    f.close()
def read(file):
    f = open(file,'rb')
    try:
        while True:
            rec = pickle.load(f)
            print(rec)
    except EOFError:
        f.close()
def update(file):
    f = open(file,'rb+')
    rollno = int(input("Update marks with roll number: "))
    try:
        while True:
            p=f.tell()
            rec = pickle.load(f)
            if rec[0]==rollno:
                u = int(input("Enter Updated marks: "))
                rec[2]=u
                f.seek(p)
                pickle.dump(rec,f)
    except EOFError:
        f.close()

write("StudentDetails")
read("StudentDetails")
update("StudentDetails")
read("StudentDetails")
```

Program 6 (Output)

```
Roll No.: 1405257259
Name: John Doe
Marks: 11
Enter more records (Y/N) n
[1405257259, 'John Doe', 11]
Update marks with roll number: 1405257259
Enter Updated marks: 13
[1405257259, 'John Doe', 13]
```

Program 7

Program to generate a random number between 1 and 6 (Dice simulator)



```
File  Edit  Format  Run  Options  Window  Help
#Program to simulate a dice
import random
while True:
    print("="*55)
    print("ROLLING. . . . . .")
    num=random.randint(1,6)
    if num==6:
        print("Congo! ! ! you get : ",num)
    else:
        print("you Got",num)
    print(num)
    ch=input("Want to roll dice again? (Y/N) ")
    if ch in "Nn":
        break
print("Thanks For Playing! ! !")
```

Program 7 (Output)

```
==========================================================
ROLLING. . . . . .
you Got 1
1
Want to roll dice again? (Y/N) Y
==========================================================
ROLLING. . . . . .
you Got 2
2
Want to roll dice again? (Y/N) n
Thanks For Playing! ! !
```

Program 8 (Code)

Program to create a CSV file by entering user – id and password, read and search the password for given user – id.

File Edit Format Run Options Window Help

```
#Program to create a csv file by entering user-id and password
#Also read and search password for the given user-id
import csv
f=["ID","Password"]
p=[ ["abc","123"],
   ["def","456"],
   ["ghi","789"] ]
with open("Check.csv","w") as csvfile:
   csvwriter=csv.writer(csvfile)
   csvwriter.writerow(f)
   csvwriter.writerows(p)
search_id=input("Enter ID  to Search:")
csv_file = csv.reader(open("Check.csv","r") ,delimiter=",")
for val in csv_file:
   if search_id in val:
      print(val)
```

Program 8 (Output)

```
Enter ID  to Search:def
['def', '456']
>>>
```

Program 17 (Code)

Program to show constituting methods in Python to add, display and remove a name from a given stack of name of countries.

code5.py > ...

```
#Program to show constituting methods in Python to add, display and remove a name from a given stack of name of countries

def PUSH(country):
    name = input("Country Name: ")
    country.append(name)
def POP(country):
    if country!=[]:
        print(country.pop())
    else:
        print("Empty Stack")
def SHOW(country):
    print(country)

STACK = []
choice=''
while choice!='Q':
    print('''\nP:PUSH
O:POP
S:SHOW
Q:QUIT''')
    choice=input("Enter your choice: ").upper()
    if choice=="P":
        PUSH(STACK)
    elif choice=="O":
        POP(STACK)
    elif choice=="S":
        SHOW(STACK)
    elif choice=="Q":
        break
```

Program 17 (Output)

```
P:PUSH
O:POP
S:SHOW
Q:QUIT
Enter your choice: p
Country Name: Greece

P:PUSH
O:POP
S:SHOW
Q:QUIT
Enter your choice: o
Greece

P:PUSH
O:POP
S:SHOW
Q:QUIT
Enter your choice: s
[]

P:PUSH
O:POP
S:SHOW
Q:QUIT
Enter your choice: q
```