

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 > ...
1  '''Program to create a binary file with name and roll number
2  Search for a given roll number and display the name, if not found, display appropriate message'''
3
4  import pickle
5  def write(file):
6      f = open(file, 'wb')
7      while True:
8          r = int(input("Enter Roll No.: "))
9          n = input("Enter Name: ")
10         Data = [r,n]
11         pickle.dump(Data,f)
12         ch = input("Want to enter more data? (Y/N)")
13         if ch in "Nn":
14             break
15     f.close()
16
17 def search(file):
18     found = 0
19     rollno = int(input("Enter corresponding roll no: "))
20     f = open(file, 'rb')
21     try:
22         while True:
23             rec = pickle.load(f)
24             if rec[0]==rollno:
25                 print(rec[1])
26                 found = 1
27                 break
28     except EOFError:
29         f.close()
30     if found == 0:
31         print("no record found")
32 write("StudentDetails")
33 search("StudentDetails")
```

Program 5 (Output)

```
[sujal@SujalJain cs-program141122]$ /usr/bin/env /bin/python3
b/python/debugpy/adapter/../../../../debugpy/launcher 35563 -- /hc
Enter Roll No.: 14023827
Enter Name: Toriyama
Want to enter more data? (Y/N)n
Enter corresponding roll no: 14002877
no record found
[sujal@SujalJain cs-program141122]$ cd /home/sujal/Desktop/
/ms-python.python-2022.16.1/pythonFiles/lib/python/debugpy/a
2/code3.py
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
1  '''Program to create a binary file with roll no, name and marks;
2  Input a roll number and update the marks.'''
3  import pickle
4  def write(file):
5      f = open(file,'wb')
6      while True:
7          r = int(input("Roll No.: "))
8          n = input("Name: ")
9          m = int(input("Marks: "))
10         record = [r,n,m]
11         pickle.dump(record,f)
12         ch = input("Enter more records (Y/N) ")
13         if ch in "Nn":|
14             break
15     f.close()
16 def read(file):
17     f = open(file,'rb')
18     try:
19         while True:
20             rec = pickle.load(f)
21             print(rec)
22     except EOFError:
23         f.close()
24 def update(file):
25     f = open(file,'rb+')
26     rollno = int(input("Update marks with roll number: "))
27     try:
28         while True:
29             p=f.tell()
30             rec = pickle.load(f)
31             if rec[0]==rollno:
32                 u = int(input("Enter Updated marks: "))
33                 rec[2]=u
34                 f.seek(p)
35                 pickle.dump(rec,f)
36     except EOFError:
37         f.close()
38
39 write("StudentDetails")
40 read("StudentDetails")
41 update("StudentDetails")
42 read("StudentDetails")
```

Program 6 (Output)

```
/usr/bin/env /bin/python /home/sujal/.vscode/extensions/ms-python.python-2022.16.1/
py/launcher 42153 -- /home/sujal/Desktop/cs-program141122/code4.py
[sujal@SujalJain cs-program141122]$ /usr/bin/env /bin/python /home/sujal/.vscode/ex
b/python/debugpy/adapter/../../debugpy/launcher 42153 -- /home/sujal/Desktop/cs-prog
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]
[sujal@SujalJain cs-program141122]$
```

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 > ...
1  #Program to show constituting methods in Python to add, display and remove a name from a given
   stack of name of countries
2
3  def PUSH(country):
4      name = input("Country Name: ")
5      country.append(name)
6  def POP(country):
7      if country!=[]:
8          print(country.pop())
9      else:
10         print("Empty Stack")
11 def SHOW(country):
12     print(country)
13
14 STACK = []
15 choice=''
16 while choice!='Q':
17     print('\n P: PUSH
18     O: POP
19     S: SHOW
20     Q: QUIT')
21     choice=input("Enter your choice: ").upper()
22     if choice=="P":
23         PUSH(STACK)
24     elif choice=="O":
25         POP(STACK)
26     elif choice=="S":
27         SHOW(STACK)
28     elif choice=="Q":
29         break
```

Program 17 (Output)

```
[sujal@SujalJain cs-program141122]$ /usr/bin/env /bin/python3  
b/python/debugpy/adapter/../../debugpy/launcher 34267 -- /h
```

```
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
```