

```
import string  
import random  
  
# Getting password length  
length = int(input("Enter password length: "))  
  
print("Choose character set for password from these :  
1. Digits  
2. Letters  
3. Special characters  
4. Exit")  
  
characterList = ""  
  
# Getting character set for password  
while(True):  
    choice = int(input("Pick a number "))  
    if(choice == 1):  
  
        # Adding letters to possible characters  
        characterList += string.ascii_letters  
    elif(choice == 2):  
  
        # Adding digits to possible characters
```

```
characterList += string.digits

elif(choice == 3):

    # Adding special characters to possible
    # characters

    characterList += string.punctuation

elif(choice == 4):

    break

else:

    print("Please pick a valid option!")

password = []

for i in range(length):

    # Picking a random character from our
    # character list

    randomchar = random.choice(characterList)

    # appending a random character to password

    password.append(randomchar)

# printing password as a string

print("The random password is " + "".join(password))
```

OUTPUT :

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar with icons for various languages: Python (selected), C/C++, Java, C#, JavaScript, Go, and others. The main area contains a Python script named 'main.py'.

```
main.py
29     # characters
30     characterList += string.punctuation
31     elif(choice == 4):
32         break
33     else:
34         print("Please pick a valid option!")
35
36 password = []
37
38 for i in range(length):
39
40     # Picking a random character from our
41     # character list
42     randomchar = random.choice(characterList)
43
44     # appending a random character to password
45     password.append(randomchar)
46
47 # printing password as a string
48 print("The random password is " + "".join(password))
```

At the top right are buttons for 'Save' and 'Run'. Below them is a 'Shell' tab with the following output:

```
Enter password length: 4
Choose character set for password from these :
1. Digits
2. Letters
3. Special characters
4. Exit
Pick a number 1
Pick a number 1
Pick a number 2
Pick a number 2
Pick a number 3
Pick a number 4
The random password is \J#{> |
```