

```

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

```



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        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)

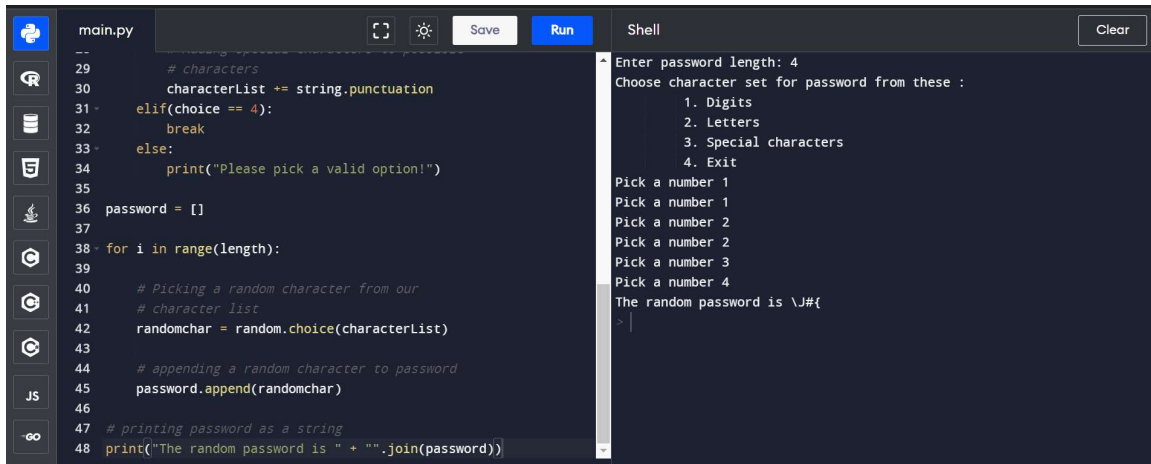
# printing password as a string

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

```



OUTPUT :



The image shows a code editor with a file named `main.py`. The Python code generates a password of length 4 by randomly selecting characters from a set of punctuation, digits, and letters. The output in the shell window shows the user selecting '4' for the password length and '3' for the character set, resulting in the password `\J#{`.

```
--
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))
```

Shell

```
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#{
> |
```