

Task -3

```
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))
```

