Week 3 Program

December 12, 2024

1 Nikhilesh Maharjan || Week 3 || Programs

[2]:
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''' 1. Modify your greeting program so that if the user does not enter a name␣
 ↪(i.e. they
      just press enter), the program responds "Hello, Stranger!". Otherwise it␣
 ↪should print
      a greeting with their name as before.'''

Name=input("Enter your name: ")
if Name:
    print(f"Hello, {Name}!")
else:
    print("Hello, Stranger!")
```

```
Enter your name:  Nikhil
```

```
Hello, Nikhil!
```

[4]:
```
'''2. Write a program that simulates the way in which a user might choose a␣
 ↪password.
 The program should prompt for a new password, and then prompt again. If the two
 passwords entered are the same the program should say "Password Set" or
 similar, otherwise it should report an error.'''

User= input("Enter your new username: ")
Password=str(input("Enter your new password: "))
Re_Enter_Password=str(input("Please enter your new password again: "))
if Password==Re_Enter_Password:
    print("Password Set Succesfully!")
    print(f"Welcome {User}")
else:
    print("Password didn't match please enter again")
```

```
Enter your new username:  Alu
Enter your new password:  ALU@
Please enter your new password again:  alu@
```

```
Password didn't match please enter again
```

[13]:
```
'''3. Modify your previous program so that the password must be between 8 and 12
 characters (inclusive) long.'''

User= input("Enter your new username: ")
Password=str(input("Enter your new password (Must have characters between 8 to␣
 ↪12): "))
Re_Enter_Password=str(input("Please enter your new password again: "))
Length=len(Password)
if (8<=Length<=12):
    if Password==Re_Enter_Password:
       print("Password Set Succesfully!")
       print(f"Welcome {User}")
    else:
       print("Password didn't match ")
else:
    print("Password needs to be 8 to 12 character long")
```

```
Enter your new username:  alu
Enter your new password (Must have characters between 8 to 12):  12
Please enter your new password again:  12

Password needs to be 8 to 12 character long
```

[16]:
```
'''4.  Modify your program again so that the chosen password cannot be one of a␣
 ↪list of
 common passwords, defined thus:
 BAD_PASSWORDS = ['password', 'letmein', 'sesame', 'hello', 'justinbieber']'''

BAD_PASSWORDS = ['password', 'letmein', 'sesame', 'hello', 'justinbieber']
User= input("Enter your new username: ")

Password=str(input("Enter your new password (Must have characters between 8 to␣
 ↪12): "))
Re_Enter_Password=str(input("Please enter your new password again: "))
Length=len(Password)
if (Password not in BAD_PASSWORDS):
 if (8<=Length<=12):
    if Password==Re_Enter_Password:
       print("Password Set Succesfully!")
       print(f"Welcome {User}")
    else:
       print("Password didn't match ")
 else:
     print("Password needs to be 8 to 12 character long")
else:
    print("Don't use common password! Try Again")
```

```
Enter your new username:  alu
Enter your new password (Must have characters between 8 to 12):  letmein
Please enter your new password again:  letmein

Don't use common password! Try Again
```

[17]:
```
'''5. Modify your program a final time so that it executes until the user␣
↪successfully
chooses a password. That is, if the password chosen fails any of the checks,␣
↪the
program should return to asking for the password the first time.'''

BAD_PASSWORDS = ['password', 'letmein', 'sesame', 'hello', 'justinbieber']
User = input("Enter your new username: ")

while True:
    Password = str(input("Enter your new password (Must have characters between␣
↪8 to 12): "))
    Re_Enter_Password = str(input("Please enter your new password again: "))
    Length = len(Password)

    if Password not in BAD_PASSWORDS:
        if 8 <= Length <= 12:
            if Password == Re_Enter_Password:
                print("Password Set Successfully!")
                print(f"Welcome {User}")
                break  # Loop will end here if password is correct
            else:
                print("Passwords didn't match. Try again!")
        else:
            print("Password needs to be 8 to 12 characters long. Try again!")
    else:
        print("Don't use a common password! Try again.")
```

```
Enter your new username:  alu
Enter your new password (Must have characters between 8 to 12):  12
Please enter your new password again:  12

Password needs to be 8 to 12 characters long. Try again!

Enter your new password (Must have characters between 8 to 12):  12345678
Please enter your new password again:  12345678

Password Set Successfully!
Welcome alu
```

[21]:
```
'''6.  Write a program that displays the "Seven Times Table". That is, the␣
 ↪result of
 multiplying 7 by every number from 0 to 12 inclusive. The output might start:
 0 x 7 = 0
 1 x 7 = 7
 2 x 7 = 14
 and so on.'''

print("Seven Times Table\n")
for i in range (13):
    Multiply=i*7
    print(f"{i} x {7}= {Multiply}")
```

```
Seven Times Table

0 x 7= 0
1 x 7= 7
2 x 7= 14
3 x 7= 21
4 x 7= 28
5 x 7= 35
6 x 7= 42
7 x 7= 49
8 x 7= 56
9 x 7= 63
10 x 7= 70
11 x 7= 77
12 x 7= 84
```

[23]:
```
'''7. Modify your "Times Table" program so that the user enters the number of␣
 ↪the table
 they require. This number should be between 0 and 12 inclusive.'''



while True:
    Number=int(input("Please enter the number you want the table for: "))
    if (0<=Number<=12):
        break
    else:
        print("Please input number from 0 to 12!!")

for i in range (13):
    Multiply=i*Number
    print(f"{i} x {Number}= {Multiply}")
```

```
Please enter the number you want the table for:  12

0 x 12= 0
```

```
1 x 12= 12
2 x 12= 24
3 x 12= 36
4 x 12= 48
5 x 12= 60
6 x 12= 72
7 x 12= 84
8 x 12= 96
9 x 12= 108
10 x 12= 120
11 x 12= 132
12 x 12= 144
```

[5]:
```
'''Modify the "Times Table" again so that the user still enters the number of␣
 ↪the table,
 but if this number is negative the table is printed backwards. So entering "-7"
 would produce the Seven Times Table starting at "12 times" down to "0 times'''

while True:
    Number=int(input("Please enter the number you want the table for: "))
    if (-12<=Number<=12):
        break
    else:
        print("Please input number from 0 to 12!!")

if (Number<0):
    for i in range(12,-1,-1):
         Multiply=i*Number
         print(f"{i} x {Number}= {Multiply}")
else:
  for i in range (13):
     Multiply=i*Number
     print(f"{i} x {Number}= {Multiply}")
```

```
Please enter the number you want the table for:  -6
12 x -6= -72
11 x -6= -66
10 x -6= -60
9 x -6= -54
8 x -6= -48
7 x -6= -42
6 x -6= -36
5 x -6= -30
4 x -6= -24
3 x -6= -18
2 x -6= -12
1 x -6= -6
```

```
0 x -6= 0
```