```
#pattern:  *
#times: 5
'''
1. Square
2. Right angled triangle
3. Equilateral triangle
4. Letter A
5. Quit
      *
    *  *
   ******
  *      *
 *        *



'''
def print_square(patt='*',nrows=5):
    for i in range(nrows):
        for j in range(nrows):
            print(patt,end=" ")
        print()

while True:
    print("Options Menu:")
    print("1. Square\n2. Right angled triangle\n3. Equilateral
triangle\n4. Pattern A\n5. Quit")
    ch=input("Enter your choice:  ")
    if ch=="5":
        break
    elif ch=="1":
        patt = input("Enter the character pattern: ")
        nrows = int(input("Enter number of rows: "))
        print_square(patt,nrows)
    elif ch=="2":
        pass
    elif ch=="3":
        pass
    elif ch=="4":
        pass
    else:
        print("Invalid option, try again!")
```

```
'''
1 2 3 4 5 ... 10
2 4 6 8 ......20
....
10 20 30 .... 100

'''
```

```
for i in range(1,11):
    for j in range(1,11):
        print("{:>4}".format(i*j),end="    ")
        #print(i*j,end="    ")
    print()

#do not use any inbuilt function, use if-loop
#declare a list, add values to the list till user wants - using append
#prolem take a value from user and check if the number is in the list
or not

list_val=[]
print("Enter the values for the list (enter -999 to stop): ")
while True:
    ch=int(input())
    if ch==-999:
        break
    list_val.append(ch)
print("List created is {}\n".format(list_val))

while True:
    success = False
    num = int(input("Enter the number to be searched in the list: "))
    pos = 1
    for i in range(len(list_val)):
       if num ==list_val[i]:
           success=True
           break
       pos+=1

    if success:
        print("Number found in the list at {} position".format(pos))
    else:
        print("Number not found in the list")
    in_ch=input("Do you want to search for more numbers (y to yes): ")
    if in_ch.lower() !='y':
        break
```