stack=[]

MAX=5

top=-1

def push(book):

global top

if top==MAX-1:

print("stack is full cannot add more books.")

else:

top+=1

stack.append(book)

print ("book added:",book)

def pop():

global top

if top==-1:

print("stack is empty .cannot remove book")

else:

removed\_book=stack[top]

top=-1

stack.pop()

print("book removed", removed\_book)

def peek():

if top==-1:

print("top book is",stack[top])

else:

print("stack is empty")

while True:

print("\n 1.push book")

print("\n 2.pop book")

print("\n 3. peek the top book")

print("\n 4. exit")

choice=input("enter your choice:")

if choice=='1':

title=input("enter the book name :")

push(title)

elif choice=='2':

pop()

elif choice=='3':

peek()

elif choice=='4':

print("exiting....")

break

else:

print("invalid choice. try again")

OUTPUT:

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:1

enter the book name :asd

book added: asd

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:1

enter the book name :dfg

book added: dfg

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:1

enter the book name :ghj

book added: ghj

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:1

enter the book name :jkl

book added: jkl

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:2

book removed jkl

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:3

top book is ghj

1.push book

2.pop book

3. peek the top book

4. exit

enter your choice:4

exiting....