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#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")
```

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print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

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q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

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print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

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print("-----")

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a=5
b=0

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choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

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if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

```

```

print("-----")

menu=int(input("enter your menu number 1-4 :"))
if menu==1:
    print(t.task("1st task"))
    print("your remaining task :")
    print(b)
    print(c)
    print(d)
    print("-----")

elif menu==2:
    print(t.task("2nd task"))
    print("your remaining task :")
    print(a)
    print(c)
    print(d)
    print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):

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break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("OOPS means object oriented programming.",true)]
quiz=quiz(questions)
quiz.start()
```

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#Question and project description
'''1. Calculator project
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```
#python code using oops
print("1. calculator")
```

```
class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
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def divide(self,a,b):
    return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):

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        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")

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if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

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elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:

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        print("wrong answer")
        print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.", "true"),
question("The earth is a flat.", "false"),
question("OOPS means object oriented programming.", "true")]
quiz=quiz(question)
quiz.start()
```

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#Question and project description
'''1. Calculator project
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using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break
```

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a=int(input("enter a value"))
b=int(input("enter b value"))

if choice == 1:
    print("add ",cal.add(a,b))
elif choice ==2:
    print("sub ",cal.sub(a,b))
elif choice == 3:
    print("product", cal.product(a,b))
elif choice == 4:
    print("divide", cal.divide(a,b))

else:
    print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

```

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print("-----")

a=5
b=0


choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully completed your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

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a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

    elif menu==3:
        print(t.task("3rd task"))
        print("your remaining task :")
        print(a)
        print(b)
        print(d)
        print("-----")

    else:
        print(t.exit("thank you"))
        break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):

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        self.secret_number=random.randint(1,50)
def guess(self,number):
    if number==self.secret_number:
        return("*correct*you guessed it")
    elif number<self.secret_number:
        return("too low")
    else:
        return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.", "true"),
question("The earth is a flat.", "false"),
question("OOPS means object oriented programming.", "true")]
quiz=quiz(question)
quiz.start()

```

```
#Question and project description
'''1. Calculator project
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using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
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        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

```

```

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

```

```

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

    elif menu==3:
        print(t.task("3rd task"))
        print("your remaining task :")
        print(a)
        print(b)
        print(d)
        print("-----")

    else:
        print(t.exit("thank you"))
        break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")

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        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("Oops means object oriented programming.",true)]
quiz=quiz(questions)
quiz.start()

```

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#Question and project description
'''1. Calculator project
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using "oops".'''
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```
#python code using oops
print("1. calculator")
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class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1

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        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")

```

```

else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

```

```

elif menu==2:
    print(t.task("2nd task"))
    print("your remaining task :")
    print(a)
    print(c)
    print(d)
    print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,question):
        self.questions=questions

```

```
    self.score=0
def start(self):
    for i in self.questions:
        user_answer=input(i.text+(true/false))
        if user_answer.lower()==i.answer.lower():
            print("correct answer")
            self.score+=1
        else:
            print("wrong answer")
            print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("OOPS means object oriented programming.",true)]
quiz=quiz(question)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''
```

```
#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
```

```

print("4. Divison")
print("5. exit")

choice = int(input("enter your choice"))
if choice == 5:
    print("thank for using calculator")
    break

a=int(input("enter a value"))
b=int(input("enter b value"))

if choice == 1:
    print("add ",cal.add(a,b))
elif choice ==2:
    print("sub ",cal.sub(a,b))
elif choice == 3:
    print("product", cal.product(a,b))
elif choice == 4:
    print("divide", cal.divide(a,b))

else:
    print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()

```

```
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")
```

```
a=5
b=0
```

```
choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
```

```

def __init__(self):
    pass
def task(self,complete):
    print(f"you successfully completed your {complete}")
def exit(self,exit):
    print(f"{exit}")

t = to_do()

a="1. Do warm up & exercise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and exercise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

    elif menu==3:
        print(t.task("3rd task"))
        print("your remaining task :")
        print(a)
        print(b)
        print(d)
        print("-----")

    else:

```

```

        print(t.exit("thank you"))
        break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,question):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("Oops means object oriented programming.",true)]
quiz=quiz(question)
quiz.start()

```



```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
```

```

        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
```

```

        print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option  for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")

```

```

print("2. Have a fresh juice")
print("3. Take a bath")
print("4. exit")

print("-----")

menu=int(input("enter your menu number 1-4 :"))
if menu==1:
    print(t.task("1st task"))
    print("your remaining task :")
    print(b)
    print(c)
    print(d)
    print("-----")

elif menu==2:
    print(t.task("2nd task"))
    print("your remaining task :")
    print(a)
    print(c)
    print(d)
    print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:

```

```
user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
result=game.guess(user_guess)
print(result)
if result.startswith("correct"):
    break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,question):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("Oops means object oriented programming.",true)]
quiz=quiz(question)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''
```

```
#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
```

```

def sub(self,a,b):
    return a-b
def product(self,a,b):
    return a*b
def divide(self,a,b):
    return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

```

```

def question_1 (self,question):
    print(f"your 1st question is:{question}")
def option_1 (self,option):
    print(f"option:{option}")
def question_2 (self,question):
    print(f"your 2nd question is:{question}")
def option_2 (self,option):
    print(f"option:{option}")
def validation (self,mark,comments):
    print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")

```

```

else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")

```

```

print(a)
print(c)
print(d)
print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,question):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false)))

```

```
if user_answer.lower()==i.answer.lower():
    print("correct answer")
    self.score+=1
else:
    print("wrong answer")
    print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.","true"),
question("The earth is a flat.","false"),
question("OOPS means object oriented programming.","true")]
quiz=quiz(question)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")
```

```

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

```

```

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

```

```

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

```

```

print("-----")

```

```

a=5
b=0

```

```

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

```

```

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option  for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excercise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

```

```

print("-----")

menu=int(input("enter your menu number 1-4 :"))
if menu==1:
    print(t.task("1st task"))
    print("your remaining task :")
    print(b)
    print(c)
    print(d)
    print("-----")

elif menu==2:
    print(t.task("2nd task"))
    print("your remaining task :")
    print(a)
    print(c)
    print(d)
    print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):

```

```
break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.",true),
question("The earth is a flat.",false),
question("OOPS means object oriented programming.",true)]
quiz=quiz(questions)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''
```

```
#python code using oops
print("1. calculator")
```

```
class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
```

```

def divide(self,a,b):
    return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
        print("product", cal.product(a,b))
    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):

```

```

        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")

```

```

if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

```

```

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:

```

```
        print("wrong answer")
        print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.", "true"),
question("The earth is a flat.", "false"),
question("OOPS means object oriented programming.", "true")]
quiz=quiz(question)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
  2. Quiz App
```

```
3. To-Do List App  
4. Number Guessing Game  
using "oops".'''
```

```
#python code using oops  
print("1. calculator")  
  
class calculator:  
    def add(self,a,b):  
        return a+b  
    def sub(self,a,b):  
        return a-b  
    def product(self,a,b):  
        return a*b  
    def divide(self,a,b):  
        return a/b  
  
cal = calculator()  
  
while True:  
    print("calculator menu")  
    print("1. addition")  
    print("2. subtraction")  
    print("3. multiplication")  
    print("4. Divison")  
    print("5. exit")  
  
    choice = int(input("enter your choice"))  
    if choice == 5:  
        print("thank for using calculator")  
        break  
  
    a=int(input("enter a value"))  
    b=int(input("enter b value"))  
  
    if choice == 1:  
        print("add ",cal.add(a,b))  
    elif choice ==2:  
        print("sub ",cal.sub(a,b))  
    elif choice == 3:  
        print("product", cal.product(a,b))  
    elif choice == 4:  
        print("divide", cal.divide(a,b))  
  
    else:  
        print("invalid menu")  
  
print("2. quizz game")
```

```

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")


```

```

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0


```

```

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:


```

```

print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))

```

```

if menu==1:
    print(t.task("1st task"))
    print("your remaining task :")
    print(b)
    print(c)
    print(d)
    print("-----")

elif menu==2:
    print(t.task("2nd task"))
    print("your remaining task :")
    print(a)
    print(c)
    print(d)
    print("-----")

elif menu==3:
    print(t.task("3rd task"))
    print("your remaining task :")
    print(a)
    print(b)
    print(d)
    print("-----")

else:
    print(t.exit("thank you"))
    break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:
            return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

```

```
class question:
    def __init__(self, text, answer):
        self.text = text
        self.answer = answer
class quiz:
    def __init__(self, questions):
        self.questions = questions
        self.score = 0
    def start(self):
        for i in self.questions:
            user_answer = input(i.text + "(true/false)")
            if user_answer.lower() == i.answer.lower():
                print("correct answer")
                self.score += 1
            else:
                print("wrong answer")
                print(self.score, len(self.questions))
questions = [question("Python is an interpreted language.", "true"),
            question("The earth is a flat.", "false"),
            question("OOPS means object oriented programming.", "true")]
quiz = quiz(questions)
quiz.start()
```

```
#Question and project description
'''1. Calculator project
2. Quiz App
3. To-Do List App
4. Number Guessing Game
using "oops".'''

#python code using oops
print("1. calculator")

class calculator:
    def add(self,a,b):
        return a+b
    def sub(self,a,b):
        return a-b
    def product(self,a,b):
        return a*b
    def divide(self,a,b):
        return a/b

cal = calculator()

while True:
    print("calculator menu")
    print("1. addition")
    print("2. subtraction")
    print("3. multiplication")
    print("4. Divison")
    print("5. exit")

    choice = int(input("enter your choice"))
    if choice == 5:
        print("thank for using calculator")
        break

    a=int(input("enter a value"))
    b=int(input("enter b value"))

    if choice == 1:
        print("add ",cal.add(a,b))
    elif choice ==2:
        print("sub ",cal.sub(a,b))
    elif choice == 3:
```

```

        print("product", cal.product(a,b))

    elif choice == 4:
        print("divide", cal.divide(a,b))

    else:
        print("invalid menu")

print("2. quizz game")

print("quiz question each carry 5 marks")
print("-----")

class quiz:
    def ask_question(self,question_1,option_1,question_2,option_2,validation):
        self.question_1=question_1
        self.option_1=option_1
        self.question_2=question_2
        self.option_2=option_2
        self.validation=validation

    def question_1 (self,question):
        print(f"your 1st question is:{question}")
    def option_1 (self,option):
        print(f"option:{option}")
    def question_2 (self,question):
        print(f"your 2nd question is:{question}")
    def option_2 (self,option):
        print(f"option:{option}")
    def validation (self,mark,comments):
        print(f"your mark of quizz question is : {mark} {comments}")

q=quiz()
q.question_1("what is the state animal of Tamil Nadu")
q.option_1("a.tiger b.lion c.nilgiri d.elephant")

print("-----")

q.question_2("who is called as Father of India")
q.option_2("a.nehru b.mother terasa c.gandhi d.vallabhai pathal")

print("-----")

a=5
b=0

```

```

choice_1=input("enter your option for question 1 : ")
if choice_1 == "c":
    print("Correct answer")
else:
    print("Incorrect answer")

if choice_1!="c":
    print("correct answer is option (c) nilgiri")
else:
    print("correct answer")

print("-----")

choice_2=input("enter your option for question 2 : ")
if choice_2 == "c":
    print("correct answer")
else:
    print("Incorrect answer")
if choice_2!="c":
    print("correct answer is option (c) gandhi")
else:
    print("correct answer")

print("-----")
if choice_1=="c" and choice_2=="c":
    q.validation(a+a,"**excellent**")
elif choice_1!="c" and choice_2!="c":
    q.validation(b+b,"**better luck next time**")
else:
    q.validation(a+b,"**good**")

print("3.TODO app")

class to_do:
    def __init__(self):
        pass
    def task(self,complete):
        print(f"you successfully complected your {complete}")
    def exit(self,exit):
        print(f"{exit}")

t = to_do()

a="1. Do warm up & excersise"
b="2. Have a fresh juice"
c="3. Take a bath"
d="4. exit"

```

```

while True:
    print("your respected task are:")
    print("1. Do warm up and excersise")
    print("2. Have a fresh juice")
    print("3. Take a bath")
    print("4. exit")

    print("-----")

    menu=int(input("enter your menu number 1-4 :"))
    if menu==1:
        print(t.task("1st task"))
        print("your remaining task :")
        print(b)
        print(c)
        print(d)
        print("-----")

    elif menu==2:
        print(t.task("2nd task"))
        print("your remaining task :")
        print(a)
        print(c)
        print(d)
        print("-----")

    elif menu==3:
        print(t.task("3rd task"))
        print("your remaining task :")
        print(a)
        print(b)
        print(d)
        print("-----")

    else:
        print(t.exit("thank you"))
        break

print("4. Number guessing game")

import random
class number_guessing_game:
    def __init__(self):
        self.secret_number=random.randint(1,50)
    def guess(self,number):
        if number==self.secret_number:
            return("*correct*you guessed it")
        elif number<self.secret_number:
            return("too low")
        else:

```

```

        return("too high")
game=number_guessing_game()
while True:
    user_guess=int(input("ENTER YOUR GUESSING NUMBER (1-50):"))
    result=game.guess(user_guess)
    print(result)
    if result.startswith("correct"):
        break

class question:
    def __init__(self,text,answer):
        self.text=text
        self.answer=answer
class quiz:
    def __init__(self,questions):
        self.questions=questions
        self.score=0
    def start(self):
        for i in self.questions:
            user_answer=input(i.text+(true/false))
            if user_answer.lower()==i.answer.lower():
                print("correct answer")
                self.score+=1
            else:
                print("wrong answer")
                print(self.score,len(self.questions))
questions=[question("Python is an interpreted language.", "true"),
question("The earth is a flat.", "false"),
question("OOPS means object oriented programming.", "true")]
quiz=quiz(questions)
quiz.start()

```



