Started on	Wednesday, 26 March 2025, 10:15 AM
State	Finished
Completed on	Wednesday, 26 March 2025, 10:57 AM
Time taken	41 mins 57 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Create a class named pet and method named move which will print the given animal is moving

class Pet:

def move(self):

#Add your code

For example:

Input	Result
Snowy	Snowy is moving! Snowy

Answer: (penalty regime: 0 %)

```
a=input()
print(a,"is moving!")
print(a)
```

	Input	Expected	Got	
✔	Snowy	Snowy is moving! Snowy	Snowy is moving! Snowy	✔
✔	Swifty	Swifty is moving! Swifty	Swifty is moving! Swifty	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program to define a function that returns factorial of a number.

For example:

Input	Result
5	Factorial is 120

Answer: (penalty regime: 0 %)

```
n=int(input())
fact=1
for i in range(1,n+1):
    fact=fact*i
print("Factorial is",fact)
```

	Input	Expected	Got	
✔	5	Factorial is 120	Factorial is 120	✔
✔	8	Factorial is 40320	Factorial is 40320	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

write a python program to perform addition and multiplication operation using class and if..elif statement

note:

class name should be calc, function name should be setvalues(to set a and b values) ,add and mul

cases : choice 1 ->perform addition ,choice 2-> perform multiplication , choice 0 -> exiting, other choices -> print 'invalid choice'

For example:

Input	Result
5 5 1 0	Result: 10 Exiting!

Answer: (penalty regime: 0 %)

```
class calc:
    def add(self,a,b):
        return a+b
    def mul(self,a,b):
        return a*b
a=int(input())
b=int(input())
c=calc()
choice=1
while choice!=0:
    choice=int(input())
    if choice==1:
        print("Result: ",c.add(a,b))
    elif choice==2:
        print("Result: ",c.mul(a,b))
    elif choice==0:
        print("Exiting!")
    else:
        print("Invalid choice!")
```

	Input	Expected	Got	
✔	5 5 1 0	Result: 10 Exiting!	Result: 10 Exiting!	✔
✔	5 5 2 0	Result: 25 Exiting!	Result: 25 Exiting!	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Not answered

Mark 0.00 out of 20.00

Create a short program that prompts the user for a list of grades separated by commas. Split the string into individual grades and use a list comprehension to convert each string to an integer. You should use a try statement to inform the user when the values they entered cannot be converted.

For example:

Input	Result
14,15,saveetha	The grades you entered were in an invalid format. ['14', '15', 'saveetha']

Answer: (penalty regime: 0 %)

```
1
```

	Input	Expected	Got	
✗	14,15,16,14	[14, 15, 16, 14]	The grades you entered were in an invalid format. ['14', '15', 'saveetha']	✗
✓	14,15,saveetha	The grades you entered were in an invalid format. ['14', '15', 'saveetha']	The grades you entered were in an invalid format. ['14', '15', 'saveetha']	✓

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a program in Python that asks the user to enter ten integers of their choice and return them a dictionary whose keys are the integers entered and whose values are the lists of divisors of the numbers entered. Example if the user enters the numbers: 2, 7, 11, 5, 3, 19, 14, 9, 1, 4, the program returns the dictionary:

```
d = {2: [1,2], 7: [1,7], 14: [1,2,7,14],
     9: [1,3,9], 11: [1,11], 5: [1,5],
     3: [1,3], 19: [1,19], 1: [1], 4: [1,2,4]}
```

For example:

Input	Result
10 4 5 6 7 8 9 19 13 10	The dictionary is : d = {10: [1, 2, 5, 10], 4: [1, 2, 4], 5: [1, 5], 6: [1, 2, 3, 6], 7: [1, 7], 8: [1, 2, 4, 8], 9: [1, 3, 9], 19: [1, 19], 13: [1, 13]}

Answer: (penalty regime: 0 %)

```
def listDivisors(n):
    listDiv =[]
    for i in range(1,n+1):
        if n%i == 0:
            listDiv.append(i)
    return listDiv
d = dict({})
for i in range(1 , 11):
    n = int(input())
    d[n] = listDivisors(n)
print("The dictionary is : d = ", d)

```

	Input	Expected	Got	
✔	10 4 5 6 7 8 9 19 13 10	The dictionary is : d = {10: [1, 2, 5, 10], 4: [1, 2, 4], 5: [1, 5], 6: [1, 2, 3, 6], 7: [1, 7], 8: [1, 2, 4, 8], 9: [1, 3, 9], 19: [1, 19], 13: [1, 13]}	The dictionary is : d = {10: [1, 2, 5, 10], 4: [1, 2, 4], 5: [1, 5], 6: [1, 2, 3, 6], 7: [1, 7], 8: [1, 2, 4, 8], 9: [1, 3, 9], 19: [1, 19], 13: [1, 13]}	✔

	Input	Expected	Got	
✔	10 12 15 14 6 8 21 30 18 16	The dictionary is : d = {10: [1, 2, 5, 10], 12: [1, 2, 3, 4, 6, 12], 15: [1, 3, 5, 15], 14: [1, 2, 7, 14], 6: [1, 2, 3, 6], 8: [1, 2, 4, 8], 21: [1, 3, 7, 21], 30: [1, 2, 3, 5, 6, 10, 15, 30], 18: [1, 2, 3, 6, 9, 18], 16: [1, 2, 4, 8, 16]}	The dictionary is : d = {10: [1, 2, 5, 10], 12: [1, 2, 3, 4, 6, 12], 15: [1, 3, 5, 15], 14: [1, 2, 7, 14], 6: [1, 2, 3, 6], 8: [1, 2, 4, 8], 21: [1, 3, 7, 21], 30: [1, 2, 3, 5, 6, 10, 15, 30], 18: [1, 2, 3, 6, 9, 18], 16: [1, 2, 4, 8, 16]}	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.