Question 1

What does the below Python code do?

```
for var1 in range(1,6):
    for var2 in range(1,6):
        if(var1%var2!=0):
            pass
        elif(var2<var1):
            continue
        else:
            print(var1*var2)
```

- ◯ Prints the square of numbers from 1 to 6
- ◉ Prints the square of numbers from 1 to 5
- ◯ Prints prime numbers from 1 to 6
- ◯ Prints prime numbers from 1 to 5

Reset Save

Question 2

What would be the output of the below Python code?

```
var = 200
if (var > 200):
    print("Within first block")
    if (var == 150):
        print("Which is 150")
    elif (var == 100):
        print("Which is 100")
elif (var > 50):
    print("Within second block")
    if (var%5 == 0):
        print("Which is multiple of 5")
    elif (var%10 == 0):
        print("Which is multiple of 10")
    else:
        print("Neither multiple of 5 nor multiple of 10")
else:
    print("Could not find true expression")

print("Good bye!")
```

A) Within second block
Which is multiple of 5
Good bye!

B) Could not find true expression
Good bye!

C) Within second block
Neither multiple of 5 nor multiple of 10
Good bye!

Question 3

Consider a Python dictionary which represents a ship's crew.

```
ship_crew={
            "Co-Captain":"Jack",
            "Chief officer":"Mack",
            "Chief steward":"Harry",
            "Chief cook":"Mala"
}
```

Jack has been promoted as a Captain and a new member Tom has joined as a Co-Captain.
What code should be written in order to have these details updated in the dictionary.
Choose TWO CORRECT options from below.

A) ship_crew['Co-Captain']="Tom"
ship_crew['Co-Captain']=ship_crew['Captain']

B) ship_crew['Co-Captain']="Tom"
ship_crew['Captain']="Jack"

C) ship_crew['Captain']=ship_crew['Co-Captain']
ship_crew['Co-Captain']="Tom"

D) ship_crew['Captain']="Tom"
ship_crew['Co-Captain']="Jack"

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Choose TWO CORRECT options from below.

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ship_crew['Co-Captain']=ship_crew['Captain']

B) ship_crew['Co-Captain']="Tom"
ship_crew['Captain']="Jack"

C) ship_crew['Captain']=ship_crew['Co-Captain']
ship_crew['Co-Captain']="Tom"

D) ship_crew['Captain']="Tom"
ship_crew['Co-Captain']="Jack"

Jack has been promoted as a Captain and a new member Tom has joined as a Co-Captain.
What code should be written in order to have these details updated in the dictionary.
Choose TWO CORRECT options from below.

A) ship_crew['Co-Captain']="Tom"
ship_crew['Co-Captain']=ship_crew['Captain']

B) ship_crew['Co-Captain']="Tom"
ship_crew['Captain']="Jack"

C) ship_crew['Captain']=ship_crew['Co-Captain']
ship_crew['Co-Captain']="Tom"

D) ship_crew['Captain']="Tom"
ship_crew['Co-Captain']="Jack"

- [ ] A
- [x] B
- [x] C
- [ ] D

Reset Save

Question 4

Consider below Python codes:

```
#****************Code 1*****************
my_str="All3 that4 glitters8 is2 not3 gold4"
my_lst=[]

for char in my_str:
    if(char.isdigit()):
        my_lst.append((int)(char))
        my_str=my_str.replace(char," ")
print(my_str,my_lst)


#****************Code 2*****************
my_str="All3 that4 glitters8 is2 not3 gold4"
my_lst=[]

for char in my_str:
    if(char.isdigit()):
        my_lst.append(char)
        my_str.replace(char," ")
print(my_str,my_lst)
```

Which of the above code(s) will produce below output?
All that glitters is not gold [3, 4, 8, 2, 3, 4]

- ◯ Both Code 1 and Code 2
- ◉ Only Code 1
- ◯ Only Code 2

```
for char in my_str:
    if(char.isdigit()):
        my_lst.append((int)(char))
        my_str=my_str.replace(char," ")
print(my_str,my_lst)


#****************Code 2******************
my_str="All3 that4 glitters8 is2 not3 gold4"
my_lst=[]

for char in my_str:
    if(char.isdigit()):
        my_lst.append(char)
        my_str.replace(char," ")
print(my_str,my_lst)
```

Which of the above code(s) will produce below output?
All that glitters is not gold [3, 4, 8, 2, 3, 4]

- ○ Both Code 1 and Code 2
- ◉ Only Code 1
- ○ Only Code 2
- ○ Neither Code 1 nor Code 2

Reset Save

```
def swap_names(name1,name2):
    temp=name1
    name1=name2
    name2=temp

print("Before swapping: name1="+name1+" name2="+name2)
swap_names(name1,name2)
print("After swapping: name1="+name1+" name2="+name2)
```

A) Before swapping: name1=Roger name2=Robert
After swapping: name1=None name2=None

B) Before swapping: name1=Roger name2=Robert
After swapping: name1=Robert name2=Robert

C) Before swapping: name1=Roger name2=Robert
After swapping: name1=Roger name2=Robert

D) Before swapping: name1=Roger name2=Robert
After swapping: name1=Robert name2=Roger

- ○ A
- ○ B
- ◉ C
- ○ D

Question 6

What is the output of the below Python code?
Note:Assume that necessary imports have been done

```
temp=['Mysore','Bangalore','Pune','Chennai']
temp.sort()
count1=len(temp[0])
count2=len(temp[-1])
final_val=math.ceil(count1/count2)
print(final_val)
```

- 3
- 2
- 1
- 4

Reset Save

Question 7

What is the output of the below Python code?

```
temp="Hello? how are you?"
if(temp.isdigit()):
    temp+="fine"
else:
    for var1 in range(len(temp)):
        if(temp[var1]=='?'):
            final_val=temp[:var1]
            break
if(final_val.endswith('u')):
    final_val.replace('you', 'u')
else:
    final_val=final_val.upper()
print(final_val)
```

- ○ HELLO?
- ◉ HELLO
- ○ fine
- ○ Hello? how are u?

Question 8

What will be the output of the below Python code?

```
num1=11//10
num2=11%10
num3=20
num4=40
num5=5

if(num3>num4):
    if(num3>num5):
        print(num5*num4/num3)
    else:
        print(num3/num5)
else:
    if(num1==num2):
        print(num4/num3)
    else:
        print(num4/num5)
```

- 2.0
- 4.0
- 10.0
- 8.0

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Question 9

What will be the output of the below Python code?

```
def func(sample, res, key,val):
    if(key in sample):
        res=True
        sample.update({key:val})
    res=False

res=None
sample={"XS":1,"X":0,"XL":3,"XXL":4}
func(sample,res,"X",2)
print(sample["X"], res)
```

- 0 None
- 2 None
- 0 True
- 2 False

Reset Save

Question 10

Choose an expression (from the options given) which would give the same logical outcome for the expression given below:
var1=5
var2=5
var3=1
var4=1
var5=0
(var1+var2)>(var3/var4) and var5<=(var1-var3*var2)

- not ((var3>=var4) and (var3==var4))
- not ((var4>=var2) or (var1==var3))
- (var4>=var2) and (var1>=var2)
- (var3==var4) and (var1>var2)

Reset Save

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Question 11

What would be the output of the below Python code?

```
var1=0
var2=10
while var1<=10 and var2>=1:
    print(var1,var2)
    var2=var2-1
    var1=var1+1
    if(var1==var2):
        break
```

A) 0 10
1 9
2 8
3 7
4 6
5 5

B) 1 9
2 8
3 7
4 6

C) 0 10
1 9
2 8

B) 1 9
2 8
3 7
4 6

C) 0 10
1 9
2 8
3 7
4 6

D) 1 9
2 8
3 7
4 6
5 5

A
B
C
D

Reset
Save

Question 12

What will be the output of the below Python code?

```
list1=[1,2,1,3,3,1,2,1,2,1]
tuple1=("A","B","C","D")
tuple1+=("E",)
list2=[]
for var1 in range(5,len(list1)):
    list2.append(list1[var1-5]+list1[var1])
for var1 in range(0,len(list2)):
    print(tuple1[var1],list2[var1])
```

A) This code will result in an error as we cannot concatenate a tuple to a str

B) This code will result in an error as tuple is immutable

C) A 2
B 4
C 2
D 5
E 4

D) A 2
B 4
C 2
D 5

A) This code will result in an error as we cannot concatenate a tuple to a str

B) This code will result in an error as tuple is immutable

C) A 2
B 4
C 2
D 5
E 4

D) A 2
B 4
C 2
D 5

- ○ A
- ○ B
- ◉ C
- ○ D

Reset Save

Question 13

When the values of var1=7, var2=6 and var3=3, which among the following logical expressions would be FALSE?

i. (var1+var2)>(var3) and (var1*var2+var3)>=(var3+var1)

ii. (var1*var2)>(var3*var1) and (var1*var2)<=(var1*var2*var3)

iii. (var1*var3)>(var1*var2*var3) or (var1*var3)<=(var2*var3)

iv. not((var1*var3)>(var3*var1) and (var1*var3)<=(var2*var3))

- ○ only i
- ○ only ii
- ◉ only iii
- ○ only iv

Reset Save

Question 14

What is the output of the below Python code?

```
code="jack and jill went up the hill"
for temp in code.split():
    if(temp.endswith("ill")):
        print("Count :",code.count("ill"))
        break
code=code.replace("j","m")
for temp in code.split():
    if(len(temp)%2!=0):
        temp_string=(str)(temp)
        code=code.replace(temp_string,temp_string.upper())
print(code)
```

A) Count : 2
mack AND mill went up THE hill

B) Count : 3
Mack and Mill went up the Hill

C) Count : 3
MACK and MILL WENT UP the HILL

D) Count : 1
mack and mill went up the hill

What is the output of the below Python code?

```
code="jack and jill went up the hill"
for temp in code.split():
    if(temp.endswith("ill")):
        print("Count :",code.count("ill"))
        break
code=code.replace("j","m")
for temp in code.split():
    if(len(temp)%2!=0):
        temp_string=(str)(temp)
        code=code.replace(temp_string,temp_string.upper())
print(code)
```

A) Count : 2
mack AND mill went up THE hill

B) Count : 3
Mack and Mill went up the Hill

C) Count : 3
MACK and MILL WENT UP the HILL

D) Count : 1
mack and mill went up the hill

```
        temp_string=(str)(temp)
        code=code.replace(temp_string,temp_string.upper())
print(code)
```

A) Count : 2
mack AND mill went up THE hill

B) Count : 3
Mack and Mill went up the Hill

C) Count : 3
MACK and MILL WENT UP the HILL

D) Count : 1
mack and mill went up the hill

- (●) A
- ( ) B
- ( ) C
- ( ) D

Reset Save

Question 15

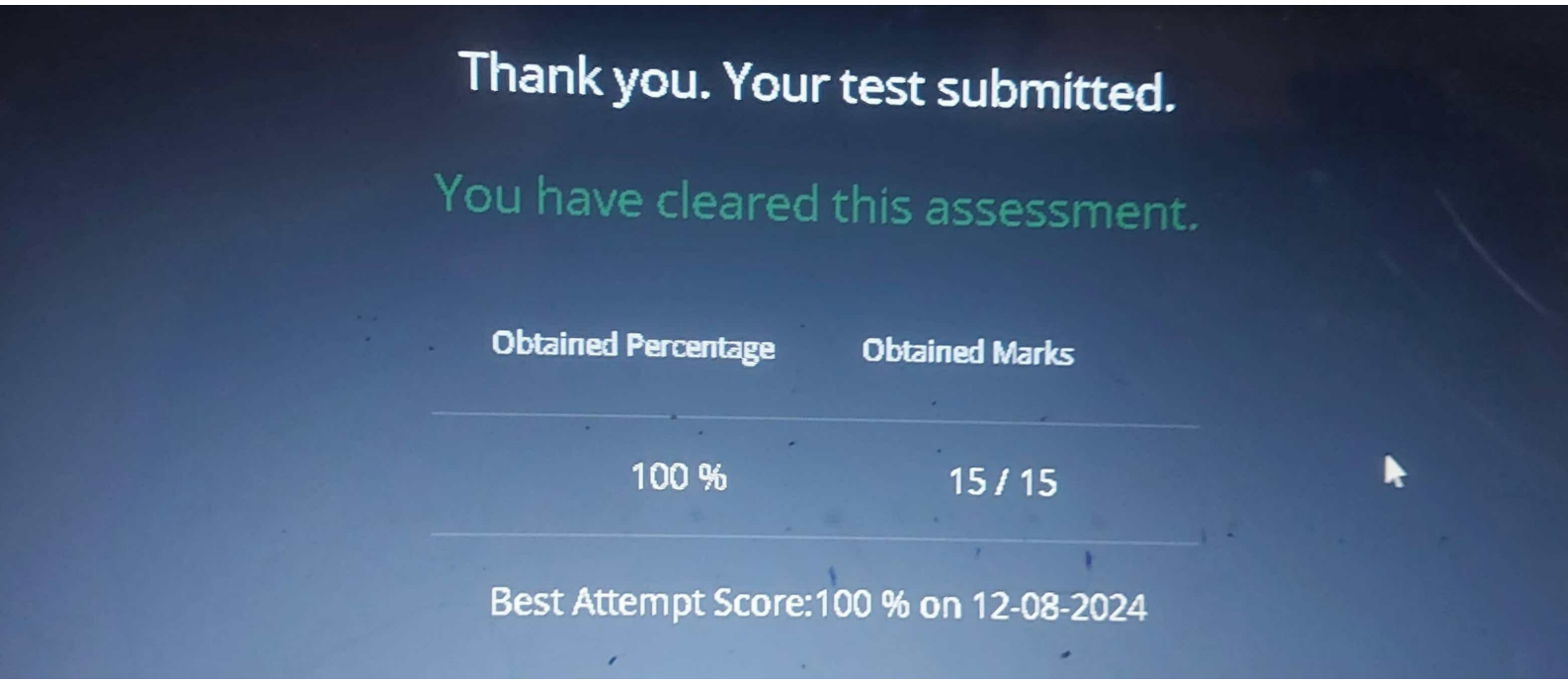
Consider the marks list given below.

Identify the Python code to be written in the Line 1 such that the output is ["FA2",95]

```
marks=["FA1",80,"FA2",85,"FA3",95]
report=marks[-4:]
#Line1_____________________________
print(report)
```

- report=report[:1]+marks[5:]
- report=marks[2:3]+marks[-2:]
- report=marks[-4:-2]
- report=report[:2]

Reset Save


Thank you. Your test submitted.
You have cleared this assessment.
Obtained Percentage
Obtained Marks
100 %
15 / 15
Best Attempt Score:100 % on 12-08-2024