

PRIMMER DUMP

1. If you are asked to do a modular software design, which combination of coupling and cohesions should you use for designing the software?

- a. High cohesion and high coupling
- b. High cohesion and low coupling**
- c. Low cohesion and high coupling
- d. Low cohesion and low coupling

2. Statement: For a logically cohesive module, there are some activities to be implemented. These activities are preferred from inside the module itself. Is the above given statement true? If not, choose the correct option to make it true.

- a. The activities are selected from outside the module.**
- b. The activities are selected in a random manner.
- c. The activities are selected in a sorted manner.
- d. The given statement is true.

3. What kind of controlled structure is used when we don't know the exact number of times a code needs to be executed?

- a. switch
- b. while**
- c. for
- d. if-else

4. Which of the given statements is true about XP?

- a. XP narrows down towards a single project developed and numbered by a single team.** ✓
- b. XP will not work in environment where the manager insists on complete documentation before the team begins to code** ✓
- c. XP will work in the environment where programmers are separated geographically. ✗
- d. XP is best suited to work with systems that have scalability issues.** ✗

5. _____ testing is done by client in the real world environment.

- a. Alpha
- b. beta
- c. system
- d. gamma

6. Which two phases of feature driven development are repeated until no more feature exist?

- a. Develop an overall model
 - b. Plan by feature
 - c. Design by feature
 - d. Build a feature list
 - e. Build by feature
- a. b and c
 - b. c and e
 - c. b and e
 - d. d and b

7. Predict the output

What will be the output for the given code snippet

startprogram

```
public class Main {  
    public static void main(String[] args) {  
        try {  
            System.out.println(4/0);  
            try{  
                Int[] a={1,2,3};  
                System.out.println(a[3]);  
            } catch(ArrayIndexOutOfBoundsException e) {  
                System.out.println("Out of bounds");  
            }  
        }catch(ArithmeticException e){  
            System.out.println("ArithmeticException : divide by 0");  
        }  
    }  
}
```

endprogram

a. out of bounds ArithmeticException : divide by 0

b. runtime error

c. out of bounds

d. ArithmeticException: divide by 0

8. Which of the following declarations will cause a compile time error?

a. int[] scores = null;

b. int[] scores = new int[5];

c. String[] nameArray = new String[10];

d. String[] nameArray = (5,3,2);

9. Arrow symbols in the flowchart is used to show the sequence of steps and the relationship among them. State true and false

a. True

b. False

10. Information hiding is achieved through which OOP principle?

a. Inheritance

b. Encapsulation

c. Typing

d. Hierarchy

11. In multibranch, the pipeline names should not contain_____.

a. spaces

b. special characters

c. numerics

d. variables

12. Which are the phases of CI/CD pipeline?

a. Source ✓

b. Operate

c. Monitor

d. Deploy ✓

13. _____ is a conceptual framework where software is developed in iterations

a. Agile

b. prototyping

c. extreme programming

d. DSDM

14. Predict the output of the following statement. Select substr("Yellow is A colour",1,5) from dual;

a. Yellow

b. Yel

c. Yello

d. elow

15. column header is referred as

a. domain

b. attribute

c. table

d. tuples

16. At which level of testing the non-functional requirements are tested?

a. Unit testing

b. system testing

c. Integration testing

d. Acceptance testing

17. Agile methodology does not accept change of requirements at any stage

a. True

b. False ✓

18. In a relational database a referential integrity constraint can be done using

a. primary key

b. foreign key

c. secondary key

d. composite key

19. Which of the given options are true with respect to arrays?

- a. Array size is fixed ✓
- b. The element of an array can be accessed using index. ✓
- c. Array element can be sorted by decreasing order. ✓
- d. Negative values cannot be placed in an array.

20. Name the type of join used to include rows that do not have matching values

- a. Cartesian product
- b. inner join
- c. non equi-join
- d. outer join

21. Expand DSDM

- a. Dynamic System Development Method
- b. Dynamic State Development Method
- c. Dynamic System Design Method
- d. Data System Development Method

22. A primary key can have null values. State True and False.

- a. True
- b. False

23. Meta data is declared as _____ in SQL?

- a. Data Dictionary ✓
- b. Meta Dictionary
- c. Meta Information
- d. Data Information

24. Which of the following is true about Continuous Integration?

- a. It is performed immediately after the developers check-in. ✗
- b. Development team sends continuous code merging requests even when the testing process is running ✓
- c. It emphasis on the change in all stages of your production pipeline ✓
- d. It is an approach of testing each code to codebase automatically. ✓

25. The practice of automatically provisioning a new environment at the time of deployment is referred to as _____

- a. Continuous Integration
- b. Continuous Development
- c. Infrastructure-as-Code**
- d. Configuration Management

26. Scrum divides the development into short cycles called _____.

- a. Spirals** ✗
- b. Tracks
- c. Lanes
- d. Sprints ✓

26. Which of the following is a correct declaration in java?

- a. `char[] Tic = new char();`
- b. `char[] Tic = new char[19];`**
- c. `char[] Tic = new char(14);`
- d. `char[] Tic = new char[];`

27. Raghav has developed an application to automate the billing process of the Aarvee Departmental Store. When the product is in operation, the client found that the place of the phone number, it prints the Customer ID. So he approaches Raghav to fix the issue. What type of Maintenance does the above scenario depict?

- a. Corrective**
- b. Adaptive
- c. Predictive
- d. Preventive

28. Consider the scenario: You have written a code to display a menu on the screen and some operation are preformed based on the given user input. Which control structure would you use, so that the menu is guaranteed to show/display at least once on the screen, before performing the operation.

- a. for loop
- b. While loop
- c. Do-While loop**
- d. Case

29. Predict the output for the given pseudo code snippet. SET count = 1

While count less than or equal to 5

Print "Hello, world"

Count = count + 1

END WHILE

a. Prints "Hello, world" 5 times

b. Prints "Hello, world" 6 times

c. loop goes on infinitely

d. Prints "Hello, world" 4 times

30. Pinky and Raju are working on an insurance project. They are not aware of SVN. So they created a common project on the server. Both retrieved the project from the server. They made relevant changes to the life. First Raju saved the changes to the server. Next Pinky saved her project identify which of the given statements are true.

a. Both their changes get updated on the server.

b. Pinky's changes alone are stored and when Raju tries the upload, the server notifies the differences.

c. Both Pinky and Raju's changes get rolled back.

d. Pinky's project over writes the changes done by Raju.

31. Statement: For a logically cohesive module, there are some activities to be implemented. These activities are preferred from inside the module itself.

Is the above given Statement true? If not, choose the correct option to make it true.

a. The activities are selected from outside the module.

b. The activities are selected in a random manner.

c. The activities are selected in a sorted manner.

d. The given statement is true.

32. does the special group or group 0 is included while coupling groups using the groupCount in java.

a. True ✗

b. False ✓

33. Many_____ are delivered in an agile process.

a. Builds ✓

b. Software ✗

c. Programs

d. Tests

34. Predict the output

startprogram

class Product

{

 String productName;

}

class Mobile extends Product

{

 String mobileName;

 void display()

 {

 super.productName = mobileName + "Brand New !";

 System.out.println(mobileName + " " + productName);

 }

}

class Main

{

public Static void main(String args[])

{

 Mobile obj = new Mobile();

 obj.productName="1";

 obj.mobileName="2";

 obj.display();

 }

}

endprogram

- a. 2 2Brand New !
- b. 1 2Brand New !
- c. 1 1Brand New !
- d. Brand New !

35. Predict the output

```
import java.util.Scanner;

class WeightLimitExceeded extends Exception {
    WeightLimitExceeded(int x) {
        System.out.print(Math.abs(15-x) + "kg: ");
    }
}

public class Main{
    void validWeight(int weight) throws WeightLimitExceeded {
        if(weight > 15)
            throw new WeightLimitExceeded(weight);
        else
            System.out.println("You are ready to fly!");
    }

    public static void main(String[] args)
    {
        Main ob = new Main();
        Scanner in=new Scanner(System.in);
        for(int i=0;i<2;i++) {
            try {
                ob.validWeight(in.nextInt());
            }
            catch(WeightLimitExceeded e)
            {
                System.out.println(e);
            }
        }
    }
}
```

}

}

What will be the output for the given code snippet

a. 5kg : WeightLimitExceeded



You are ready to fly!

b. NumberFormatException

c. 5kg :

You are ready to fly!

d. Cannot find symbol Math.abs

36. Predict the output

What will be the output for the given code snippet

Startprogram

Public class Main{

public static void main(String args[])

try {

System.out.println(4 / 0);

try {

int[] a = {1,2,3};

System.out.println(a[3]);

} catch(ArrayIndexOutOfBoundsException e){

System.out.println("Out of bounds");

}

} catch (AritjmeticException e) {

System.out.println("AritjmeticException : divide by 0");

}

}

}

endprogram

a. Out of bounds AritjmeticException : divide by 0

b. Runtime error

c. Out of bounds

d. AritjmeticException : divide by 0

37. Predict the output

What will be the output for the given code snippet

startprogram

```
Public class Main{  
    public static void main(String args[])  
    {  
        int a =10;  
        for(int i=3;i>=0;i++)  
        {  
            System.out.println(a / i);  
            System.out.println("End of try");  
        }  
        catch(ArithmeticException e) {  
            System.out.println(e);  
        }  
    }  
}
```

endprogram

- a. 3
5
10
Java.lang.ArithmeticException: / by zero
- b. 3
End of try
5
End of try
10
End of try
Java.lang.ArithmeticException: / by zero ✗
- c. Compiletimeerror ✓
- d.runtimeerror

38. Predict the output

What will be the output for the given code snippet

Startprogram

```
Import java.util.regex;
```

```
Public class Main{
```

```
    public static void main(String args[])
```

```

    {
        String s="ABC";
        Pattern p=Pattern.compile(s);
        String r="ABCABCABCABC";
        Matcher m=p.matcher(r);
        System.out.println(m.lookingAt());
    }
}
endprogram

```

a. true

b. false

c. ABC

d. 0

39. Predict the output

What will be the output for the given code snippet

startprogram

Import java.util.regex;

Public class Main{

public static void main(String args[])

{

Pattern p=Pattern.compile("\\d");

String test="India123";

Matcher m=p.matcher(test);

If(m!=null)

{

System.out.println(m.find());

System.out.println(m.matches());

}

}

}

endprogram

a. true

true

b. false

true

c. true ✓

false

d. false

false

40. Predict the output

What will be the output for the given code snippet

startprogram

```
Public class Main{  
    public static void main(String args[])  
    {  
        int arr[] = new int[] {0,1,2,3,4,5,6,7,8,9};  
        int n=6;  
        n = arr[arr[n] / 2];  
        System.out.println(arr[n] / 2);  
    }  
}
```

endprogram

a. 2

b. 1

c. 6

d. 0

41. Predict the output

```
public class Main{  
    public static void main(String args[])  
    {  
        int[]m = new int[13];  
        System.out.println("m[0] is " +m[0]);  
    }  
}
```

}

(a.) Program has a compiler error

(b.) Program has a compiler error

(c.) The program runs fine and displays m[0] is 0.

(d.) None

42. Predict the output

```
import java.util.regex.*;

public class Hello {

    public static void main(String args[])
    {

        String s="REGULAREXPRESSION";

        String r="";

        s=s.replaceAll(r,"");

        System.out.println(s);

    }

}
```

(a.) ,R,E,G,U,L,A,R,E,X,P,R,E,S,S,I,O,N,

(b.) REGULAREXPRESSION

(c.) None

(d.) All

43. Predict the output

```
import java.util.Scanner;

public class Main {

    static void func(int a,int b) throws ArithmeticException, ArrayIndexOutOfBoundsException
    {

        System.out.println(10/a);

        int[] arr={1,2,3};

        System.out.println(arr[b]);

    }

    public static void main(String[] args)
    {
```

```

Scanner in=new Scanner(System.in);
for(int i=0;i<3;i++)
{
    try{
        func(in.nextInt(),in.nextInt());
    }
    catch(ArithmeticException e){
        System.out.println("can't divide by zero");
    }
    catch(ArrayIndexOutOfBoundsException e)
    {
        System.out.println("Out of bounds");
    }
}
}
}

```

a) 5

2

can't divide by zero

5

out of bounds

b) 5

1

can't divide by zero

5

out of bounds

c) Compile TimeError

d) Results in recursion

44. Which plugin are the appropriate functionality plugins used in multibranch pipelines for validating the pull or change requests. (Select any two)

*) GitHub Branch Source

*) GitHub Main Source

***) Bitbucket Branch Source**

*) Bitbucket Main Source

45. In code phase, requirements and feedback are gathered from customers and stakeholders.

a) True

b) False

46. Agile is useful when the client requirements are not clear or requirement frequently changes.

a) True

b) False

47. Many _____ are delivered in an agile process

a) Builds

b) Softwares

c) Programs

d) Tests

48. Assume we have created a table employees with the columns: employee_id, employee_name, salary, designation and manager_id. Here employee_id is set as primary key and manager_id is a foreign key which refers to employee_id in the employees. Manju wants to display the employee details along with the manager id and manager name. Select which query suits the above requirement.

a) select employee_id, employee_name, salary, employee_id "Mgr-id", employee_name "Mgr-name" FROM employees;

b) select e.employee_id, e.employee_name, e.salary, m.employee_id "Mgr-id", m.employee_name "Mgr-name" FROM employees e, employees m Where e.manager_id = m.manager_id;

c) select e.employee_id, e.employee_name, e.salary, m.employee_id "Mgr-id", m.employee_name "Mgr-name" FROM employees e, employees m Where e.manager_id = m.employee_id;

d) select e.employee_id, e.employee_name, e.salary, m.manager_id "Mgr-id", m.employee_name "Mgr-name" FROM employees e, employees m Where e.manager_id = m.employee_id;

49. Predict the output

What will be the output for the given code snippet

startprogram

import java.util.Scanner;

public class Main{


```

    public static void throwit(){
        System.out.println("throwit");
        throw new RuntimeException();
    }
    public static void main(String[] args){
        try{
            System.out.println("Hello");
            throwit();
        }catch(Exception re){
            System.out.println("Caught");
        }finally{
            System.out.println("Finally");
        }
        System.out.println("After");
    }
}

```

a) Hello

Output will be HELLO THROWIT CAUGHT FINALLY

throwit

Caught

Finally

After

b) Finally

After

c) CompileTimeError

d) throwit

Caught

After

Finally

What does public Boolean lookingAt() method do?

Attempts to match the pattern partially or fully in the matcher

Which of these are not agile methodology?

BPM

Agile Technology does not accepts change of requirements at any stage.

False

In a relational database a referential integrity constraint can be done using

Foreign key

Which one is YAML's basic building block?

Key Value

Predict the output of the below query. Select max(salary), min(salary), sum(salary), avg(salary) from employee.

Will display the max, min, sum and average salary earned by the employee

In multibranch, the pipeline names should not contain _____

Spaces

Which of the following takes more time?

Maintenance

1. Which of the following is said to be non-adaptive

ANS=selection sort

Merge sort

2. What is the output of the query:

startprogram

Select substr("Stay home!Stay safe!!",1) from dual;

End program

ANS= Stay home! Stay safe!

3. Which of the given options are used to calculate the running time complexity of an algorithm

ANS= Asymtotic notation

4. _____ is used to alter the program flow, when a set of statements need to be excecuted only if a condition is fulfilled

ANS= Conditional statement

5. Analysis of selection algorithm eliminates _____ number of elements each time

Ans= $n/2$

6. White box testers should require the working knowledge of the code segment

ANS-True

7. A doubly linked list cannot be implemented using a single pointer variable in every node

Ans= True

8. If you create a view WITH READ ONLY option, it can only be viewed and not updated. State true/false.

Ans = true.

9. constraints ensures _____ and _____ of the data in the database

Ans = a)Correctness

b) Reliability

10.The WHERE clause cannot be used to apply additional conditions in SELECT statement containing the ON or the USING clause. State true/false.

Ans = true(not sure).

11. Consider the following array {12,3,1,5,8} Tell us the number of steps that are required to sort the elements in the ascending order using insertion sort.

Ans = 5

12. Choose legal identifiers from the below options:

a) 4thvariable

b) _98_

c) &count

d) \$says

e) new

13. In which of the given data structures, does the implementation become difficult?

Ans= graph

14. William is planning to develop software- Customer Feedback System, which helps the department store to predict the sales target. His requirements are clear but his requirements are not stable. Suggest a software development suitable for this scenario.

Ans = Prototype model

15. White box testers should require the working knowledge of the code being tested

Ans= true

```
16.      import java.util.ArrayList;
import java.util.List;
class TestMain{
    public static void main(String[] args){
        //INSERT LIST DECLARATION HERE
        for(int i=0;i<=5;i++){
            List<Integer> row=new ArrayList<Integer>();
            for(int j=0;j<=5;j++)
                row.add(i*j);
            db.add(row);
        }
    }
}
```

```

}
for(List<Integer>row:db)
System.out.println(row); }
}

```

Ans = List<List<Integer>>db= new ArrayList<List<List<Integer>>());

17. public class Main

```

{
public void printVal(Integer i)
{
System.out.println("Integer "+i);
} public void printVal(int i)
{
System.out.println("Int "+i);
}
public static void main(String[] args) { new Main().printVal(127); }
}

```

Ans = int 127

18. public class TestMain extends Tree

```

{
public static void main(String s[])
{
new TestMain().go();
}
void go(){
grow2(new Tree().new TestMain());
grow2(Main)new tree().nw TestMain());
}
void grow (Tree t1,main r1){
Testmain r2=(Testmain)t1;
Tree t2=(Tree)r1;
}
}

```

```
}
```

```
class Tree{}
```

ans = compile time error

```
19.      public class Main{  
          public static void main (String[] args){  
              String a[]=new String[-9/-4];  
              int b=a.length;  
              System.out.print(new  
              String[]{"Harley","Aprilla","Kawasaki","Triumph","Guzz"}[0]);  
          }}
```

Ans = Kawasaki

20. predict output

```
class TestMain{  
    int x=50;  
    public static void main (String[] args) {  
        final TestMain f1= new TestMain();  
        TestMain f2 = new TestMain();  
        TestMain f3 = isValid(f1,f2);  
        System.out.println(f1==f3)+" "+(f1.x==f3.x));  
    }  
    static TestMain isValid(TestMain x,TestMain y){  
        final TestMain z=x;  
        z.x=60;  
        return z;  
    }  
}
```

ans= true true

```
21.      class mammel{  
          String name= "Dog";
```

```

String makenoise(){
return "Bow Wow";
}
}
class Cat extends mammel{
String name="Cat";
String makeNoise()
{
return "Meow";
}
}
public class Main{
public static void main (String[] args) {
new Main.go();
}
void go()
{
mammel m=new Cat();
System.out.println(m.name+m.makeNoise());
}
}

```

Ans = dog meow

22. Bonus calculated module was unit tested by the developer. Depending on the salary the bonus needs to be calculated. Assume if one of the salary-range is between 30000 to 40000 then the bonus should be 10%. From the given options identify the test cases for Equivalence Partitioning.

Ans-

25000,35000,45000

25000,27000,29000

42000,43000,45000

32000,35000,39000

23. What is the command to concatenate fname and lname with a space in between and display

the output under the heading of "Full Name"?

Employee(eid,fname,lname,salary)

Ans= select fname || ' ' || lname as 'Full Name' from employee;
select fname || ' ' || lname 'Full Name' from employee;

24. Consider the following table structure and write a query to display all the employees who

have and don't have department id assigned

Emp(fname,lname,dno)

Dept(dep9d,dname)

Ans= 1) SELECT FNAME,DEPTID,DNAME FROM EMP E LEFT OUTER JOIN DEPT D
ON (E.DNO=D.DEPTID);
2) SELECT FNAME,DEPTID,DNAME FROM EMP E FULL OUTER JOIN DEPT D
ON(E.DNO=D.DEPTID

25. Select statements true about persistence

Answer = i) persistence is way through which life time of object exists even after the terminates

ii) Java uses serialisation for object persistence

iii) Persistence is a way through which the life time of object is terminated as the program terminates

iv) Persistence of object is done by java runtime automatically.

50. public class TestMain

```
{  
  {
```



```
        index=1;
    }
    int index;
    public static void main(String[] args)
    {
        new TestMain().find();
    }
    void find(){
        int[][]d = {{7,8,9},{4,5,6},{0,1,2,3}};
        System.out.println(d[index++][index++]);
```

```
}  
}
```

Ans = 6

```
41.    class Rays {  
        static String s="";  
        protected Rays(){  
            s+="Rays";  
        }  
    }  
    class Alpha extends Rays {  
        private Alpha(){  
            s+=" Alpha";  
        }  
    }  
    public class Main extends Rays  
    {  
        private Main() {  
            s += "SubAlpha";  
        }  
        public static void main(String s[])  
        { new Main();  
        System.out.println(s);  
        }  
    }
```

Ans = rayssubalpha

42. In order to refer to all the elements in a one dimensional array which is the possible option that you would choose.

Ans = Using an indexed loop, such that the respective_____from 0 to the array size minus one.

43 ____is the time duration for each sprint

a>2-3 days

b>2-5 hours

c>2-4 weeks

d>1 month

43. Match the correct options with the characteristics of a good program

1) Cost effectiveness - A)Ability to handle most of the changes without having to rewrite the entire program

2)Efficiency - B)Deals with the amount of time and memory space required for a program

3)Portability -C)Ability to run on different platforms with or without minimal changes

4) Flexibility – D)Deals with program quality without much expenses

Ans = 1-D,2-B,3-C,4-A

48. public class Main

```
{  
    {  
        System.out.print("Hello");  
    }  
    public display()  
    {  
        System.out.print("display");  
    }  
    public static void main(String s[])  
    {
```

```
System.out.print("hai");  
display dobj1=new display();  
display dobj1=new display();  
}  
}
```

Ans = haiHellodisplayHellodisplay

49. _____ is used to alter the program flow, when a set of statements need to be executed only if a condition is fulfilled.

Ans= conditional statements

50. in which of the given data structures, is pointers concept applied?

Linked list

Binary tree

51. What is the output of the query: startprogram

Select substr("Stay home! Stay safe!!",1)from dual;
End program

Ans: Stay home! Stay safe!

52. appending content to existing file in vi editor can be done in___mode.

Command mode

Insert mode

Append mode

Escape mode

57. choose the data control Language commands?

Commit

Grant

58. In HTML, base tag should be used inside the head section only?

True

59. which uml diagram is capable to depict conditional branching and loop execution?

Ans = sequence diagram

70. choose the methods(s) of the stringbuilder class

Intern()

Delete()

Append()

Reverse()

Replace()

71. Consider the following structure

Customer (custid,custname,address,city,country)

Choose the option display all customer who all are not from Hyderabad and delhi.

a. Select * from customer where city in("Hyderabad","Delhi");

b. Select * from customer where city < > in("Hyderabad","Delhi");

c. Select * from customer where city not in("Hyderabad","Delhi");

d. Select * from customer where city <>"Hyderabad" and city <>"Delhi";

78. which of the given options are true with respect to linked lists, when compared to arrays

1.Linked lists are dynamic in size

2.Random access is possible in linked list

3.Insertion and deletions are expensive in linked list

4.All the options

79. "How to do" aspects is converted in a SRS document.State true/False.

Ans:0(False)

80. consider a scenario: you have written a code to display a menu on the screen and some operations are performed based on the given user input.

Which control structure would you use ,so that the menu is guaranteed to show?display at least once on the screen, before performing the operation

Ans= do-while loop

81. US Insurance project development team members are divided into two groups, one team

works in the development office in India and the other group works onsite, ie, at the client location

So Programmers located in different locations is not suitable for methodologies

Ans=DSDM

82. Which of the following is not a part of SRS document

Ans –

Functional Requirement

Non-Functional Requirements

Implementation Details

Hardware Software specifications

83.) When constructing loop statements,if the iteration condition is not terminated ,it will

result in Infinite loop(true?false)

ans= true

84) Sam and rose are working on the loan monitoring project the head version was checked

out By both sam and rose .both of them made their changes in the local machines both of them

Made the required changes and updated the same to the server from the given options Identify

correct option

Ans= Second projects gets over written by the first one

85) ERD Example

consider the given scenario. A product may or may not have a sale.

A sale can have one or more products. Identify the optionality between the product and sales

correct option: 1..0

86. In a binary search algorithm, if the element to be searched is less than the pivot value (middle value), then _____ is split in half.

Right interval

Left interval

Half interval

Compiler dependent

87. startprogram

```
public interface studentmark{  
/*insert code here*/ int mark=100;  
}
```

which modifiers when inserted in the above code will provide compilation errors?(choose two)

endprogram

final

static

abstract

private

public

88.)Amaze Agencies, Customers can apply for loan. To apply loan the customers

should get registered first then apply for the loan. The admin will approve the loan

and then the loan will be issued to the customer.

Identify the classes in above scenario.

Ans: Customer, Loan, Register.


```

90. class High{
    public High(String s){
        System.out.print("From High");
    }
}

public class Main extends High{
    public Main(String s){
        System.out.print("From Low");
    }
    public static void main(String[] args){
        new Main("High Low");
        System.out.println("");
    }
}

```

Ans = compile time error

91. The following XML fragment is legal.

```

Startprogram<2020SalesReport>
<income>1000000</income>
<profit>500000</profit>
</2020SalesReport>
Endprogram

```

Ans: True

92. 1)INNER JOIN 2)LEFT OUTERJOIN 4)RIGHT OUTER JOIN 5)FULL OUTER JOIN
WITH

A>Returns records that have matching values in both tables B>Returns the matched records from the right table, and all records from the left table C>Returns the matched records from the left table, and all records from the right table D>Returns all records when there is a match in either left or right table

a>1-d,2-c,3-b,4-a

b>1-d,2-b,3-c,4-1

c>1-d,2-b,3-a,4-c

d>1-a,2-b,3-c,4-d

93. Consider the file staff.dat which has the following content

1:Anu Professor 85000 y

2 Sam Associate Professor 150000 5yrs

3. John Professor 75000 6yrs

4. Suresh Associate Professor 150000 5yrs Which is the command to display the output as follows?

Suresh Associate Professor

Sam Associate Professor

John Professor

Anu Professor

Ans= cut -d: -f 2,3 staff.dat | sort -r

94. The company needs to change the job title 'officer' to 'Administrative officer' for all officers. Which statement does this

Ans= update employee job='Administrative officer' where upper='officer';

95. Identify the type of control statement from the given option, in which the program chooses two or more alternative paths based on the result of a particular expression that returns a Boolean value.

Ans=sequential

96. public class demo

```
{
static int num1=85;
int num2=58;
{
    display();
    num1=58;
    num2=85;
}
void display()
{
System.out.println("num1="+num1);
System.out.println("num2="+num2);
}
public static void main(String d[])
```

Note= Agar question mai num1 or num2 ki values alag aegi to fatafat is copy kar k compiler m check kar k output bata dena..jaha jaha demo hai waha Main likh dena agar online compiler use karre ho to

```
{  
    demo myobj=new demo();  
    myobj.display();  
}}
```

Ans =

num1=85

num2=58

num1=58

num2=85

97. predict the output display the loan type and the number of customers under each loan type, considering only those loan types which are taken by more than one customer.

Select loan_type,count(customer-id) from loans_taken l1 inner join loans l2 on l1 loan_id=l2 loan_id group by loan_type having count(customer_id)>1 order by loan_type

98. Consider the following css code snippet

Startprogram

```
H1{  
    Text-shadow : 2px 3px 5px;  
}
```

Endprogram

Choose the appropriate appearance for the text.....

Ans= horizontal shadow 2px,vertical shadow 3px,blur 5px

99. which of the below are functional interfaces?

Clonable

Serialization

Autocloseable

Comparable

Comparator

100.

Statement 1 : an include relationship between usecase means the included usecase will be called every time the base usecase is executed

Statement 2 : an extends relationship between usecase means the extended usecase is executed only when a given condition is true

Identify the correct statement

Ans= both 1 and 2 are true

101 what is the order of execution when there is a parent class and a child class with constructors in it?

Ans =

- 1. initialization block of super class**
- 2. initialization block of the class**
- 3. constructor of super class**
- 4. constructor of the class**

102. Spot the error. Observe the given algorithm to calculate the simple interest. Identify the

incorrect step (if any)

Step 1: Start

Step2: Get principle_amount,no_of years,rate_of_interst

Step3: Multiply principle_amount,no_of years,rate_of_interst and store it in result

Step4: Simple_Interest=result%100

Step5: Display Simple Interest

Step6: Stop

Ans = Step 4

103. class Television

{

public void getPictureResolution(){

```

System.out.println("Video Quality is low");
}}
public class smartTv extends Television{

    public void getPictureResolution(){
        System.out.println("Video Quality is high");
    }

    public static void main(String[] args) {
        try{
            ((smartTv)new Television()).gePictureResoution();
        }
        catch(ClassCastException e)
        {System.out.print("Class cast exception was caught");
        }
        finally{
            System.out.println("Finally");
        }
    }
}

```

Ans=
video quality is high
finally

104.

You need to analyze the time duration from the time that your orders are placed to the time that your orders are shipped.

To do this, you must create a report that displays the customer number, date ordered, date shipped, and the number of

months in whole numbers from the time the order is placed to the time the order is shipped Which statement produces the required results

options =

☐ SELECT customer_id, order_date, shipping_date, ROUND(DAYS BETWEEN (shipping_date, order_date)) 30) Time Taken FROM order,

☐ SELECT customer_id, order_date, shipping_date, ROUNDOFF(shipping_date order_date) Time Taken FROM order

☐ SELECT customer_id, order_date, shipping_date, MONTHS BETWEEN (shipping_date order_date) Time Taken FROM order,

☒ SELECT customer_id, order_date, shipping_date ROUND(MONTHS BETWEEN (shipping_date, order_date)) Time Taken FROM order,

105. in CSS, which of the following code/ codes can be used for colouring a table background in red?

Code 1: table {background-color: red; }

Code 2: table {bgcolor: red;}

Code 3: table {background: red;}

Choose one

Ans= code 1 only

```
106. class TestMain{
    public static void main (String[] args) {
        Map<Tasks, String> m= new HashMap<Tasks, String>();
        Tasks t1 = new Tasks("Jan");
        Tasks t2 = new Tasks("Jan");
        Tasks t3 = new Tasks("Apr");
        m.put(t1,"Design");
        m.put(t2,"Code");
        m.put(t3,"Develop");
        System.out.println(m.size());
    }
}
```

```

class Tasks{
    String day;
    Tasks(String d){
        day=d;
    }
    public boolean equals(Object o){
        return((Tasks)o).day==this.day;
    }
}
public int hashCode()
{
    return 0;
}

```

Correct option: 3

107. Agile methodology accepts change of requirement at any stage. State true or false

Ans = 1

108. A linear structure which follows a specific order in which the operations are performed. Stack follows which of the given orders?

Ans = last-in-first-out

109. when an exception occurs in a method. The method creates an object for that exception. To handle the exception, it is given to the run time system. the run time system searches for all the methods in the call stack, it cannot find the appropriate handler then it hands over the object to?

Ans= NoSuchElementException

110. class BlackBoard{
 Short story=200;
 BlackBoard write(BlackBoard bb)
 {
 bb=null;
 return bb;
 }
 public static void main(String[] args)
 {

```

        BlackBoard b1=new BlackBoard();
        BlackBoard b2=new BlackBoard();
        BlackBoard b3=b1.write(b2);
        b1=null;
    }
}

```

Ans= 1

111. Which of the following is a checked exception

Correct answer: IOException

FileNotFoundException

```

112. import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        String[] str={"Banana","Apple","Watermelon","Mango"};
        sortFruit o=new sortFruit();
        Arrays.sort(str,o);
        for(String s: str)
            System.out.print(s+" ");
        System.out.println(Arrays.binarySearch(str,"map"));
    }
    static class sortFruit implements Comparator<String>
    {
        public int compare(String str1,String str2)
        {
            return str2.compareTo(str1);
        }
    }
}

```

Ans = Watermelon Mango Banana Apple -5

113. What is the relationship between these two Building has rooms

Ans

Composition

Aggregation
Generalization
Hierarchy

114. which of the following tag represents a section of the document intended for navigation in html5?

Ans= nav

115. A Software needs to be developed for a Sterlin Hospital to monitor the radiations given for cancer patients. Even a very minute deviation would result in the risk of the life of the patient. Which would be the appropriate life cycle model used to implement the given scenario

Select one:

- a. Agile
- b. Prototyping
- c. Water fall
- d. Spiral**

116. which of the following operations can be used instead of the or operator when there are multiple values that need to be compared

Ans = IN

117. Consider the scenario. For an insurance, a customer makes a claim. The claim can be a normal or a critical claim. The insurance company confirms the claim. What diagram can be used to understand the state changes of the component triggered by events and the dynamic nature

Correct answer : state chart diagram

118. which of the following is not a principle of dsdm?

Ans = easy to understand modes

119.

Startprogram

Body{

Background-color : rgba(0,0,0,0);

}

Endprogram

Ans = fully transparent

120. in javascript what will be returned by the following code snippet?

Startprogram

`Document.write(new date().getmonth());`

Endprogram

Ans = month as number from 0 to 11

```
121. class ClassA
protected void show(){
System.out.print("Super Class Method"),
}
class ClassB extends ClassA{
private void show(){ System.out.print("Sub Class Method");
}
public static void main(String[] args){ ClassB subObj = new ClassB();
subObj.show();
}
}
```

Ans = compile time error

```
122. class One {
}
class Two extends One {
}

public class Main {
    static String s="Print";
    public static void main(String[] args)
    {
        One[] a=new One[2];
```

```

Two[] b = new Two[2];
print(a);
print(b);
print(7);
System.out.println(s);
}

static void print (One[]...a2){
s += "1";
}
static void print(Two[]...b1) {
s += "2";
}
static void print(Two[] b1) {
s += "3";
}
static void print(Object o) {
s += "4";
}
}

```

Ans= print 434

123. . The object which is used to fetch the input from an element for processing is _____

Ans= document

125. Which of the following tags is used to define a multi-line input field?

Ans: datalist /textarea

126. SPOT THE ERROR:

Observe the below algorithm to find the average of three numbers.

Step1: Start

Step2: Get num1, num2, num3

Step3: Add num1, num2, num3 and store it in Sum

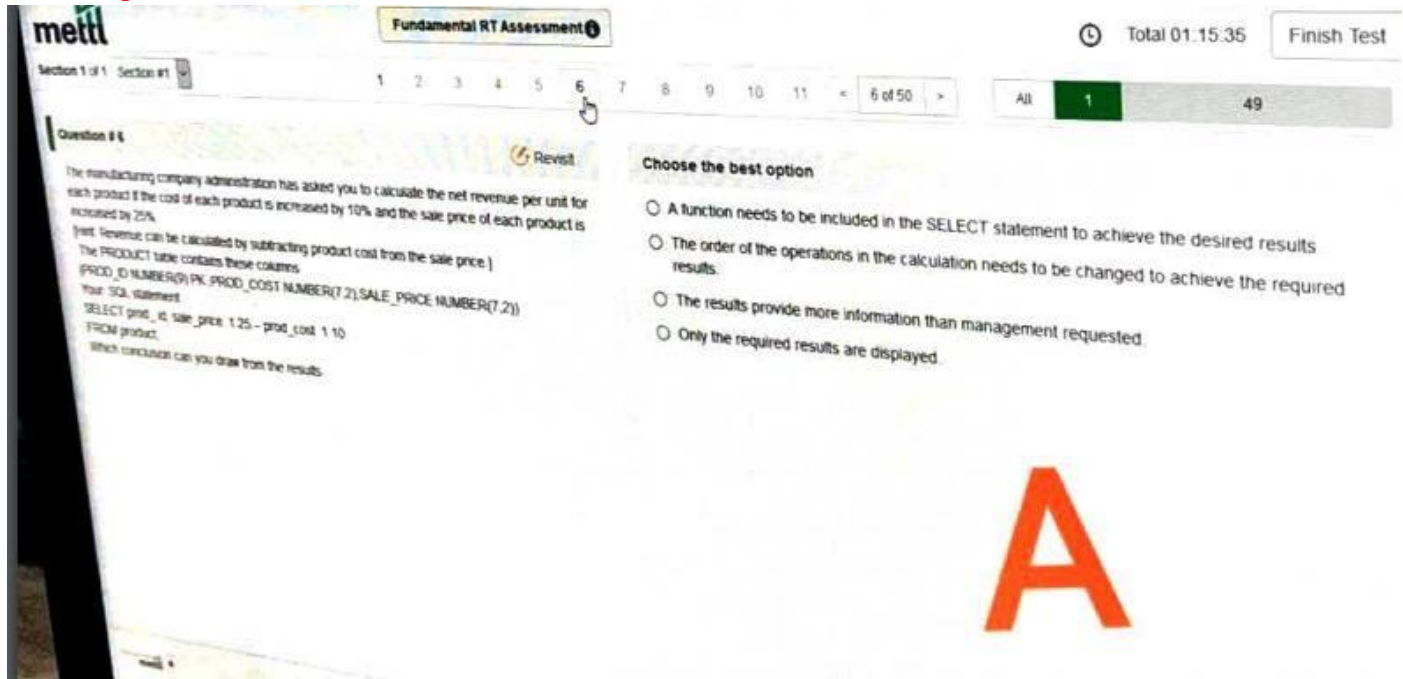
Step4: Average=sum%3

Step5: Display Sum and Average

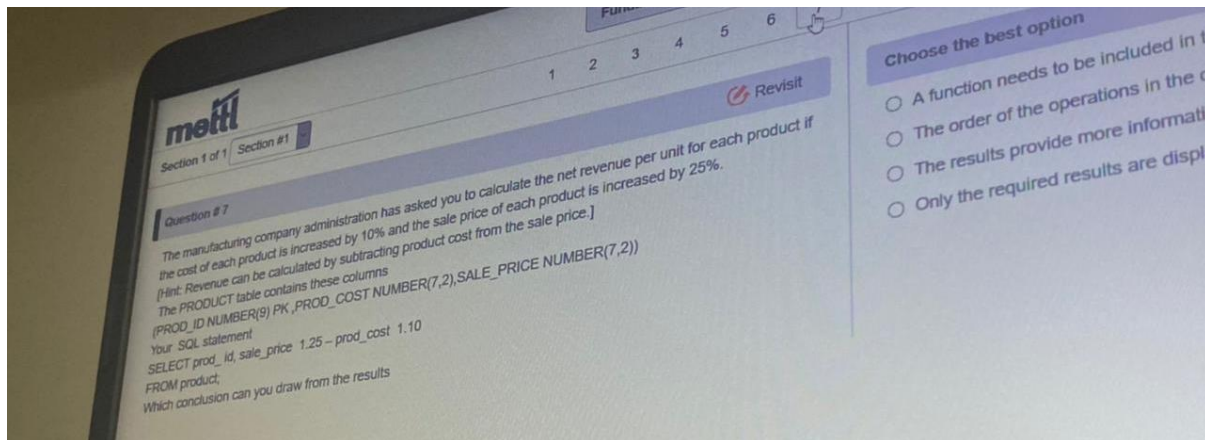
Step6: Stop

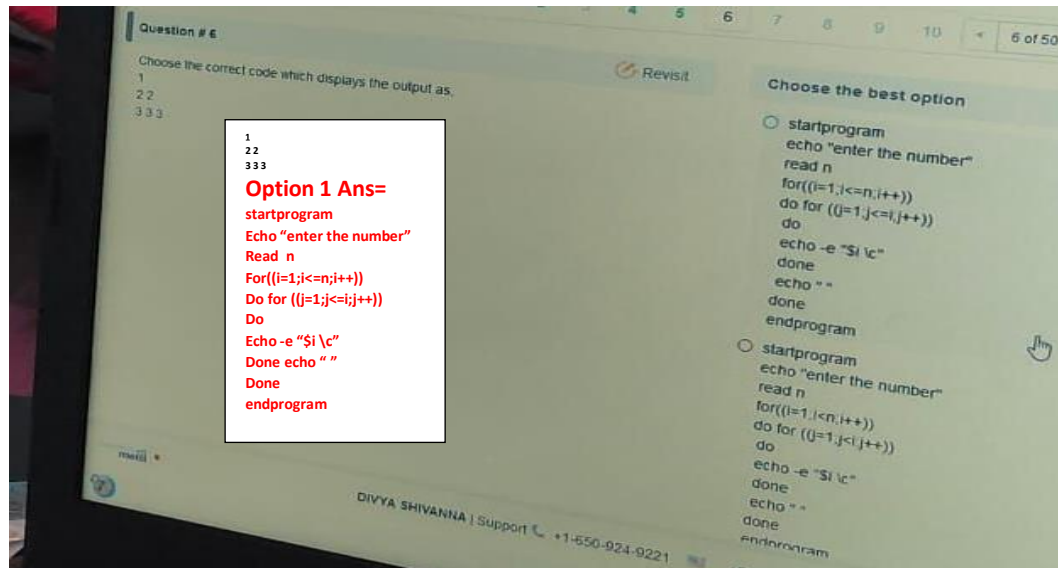
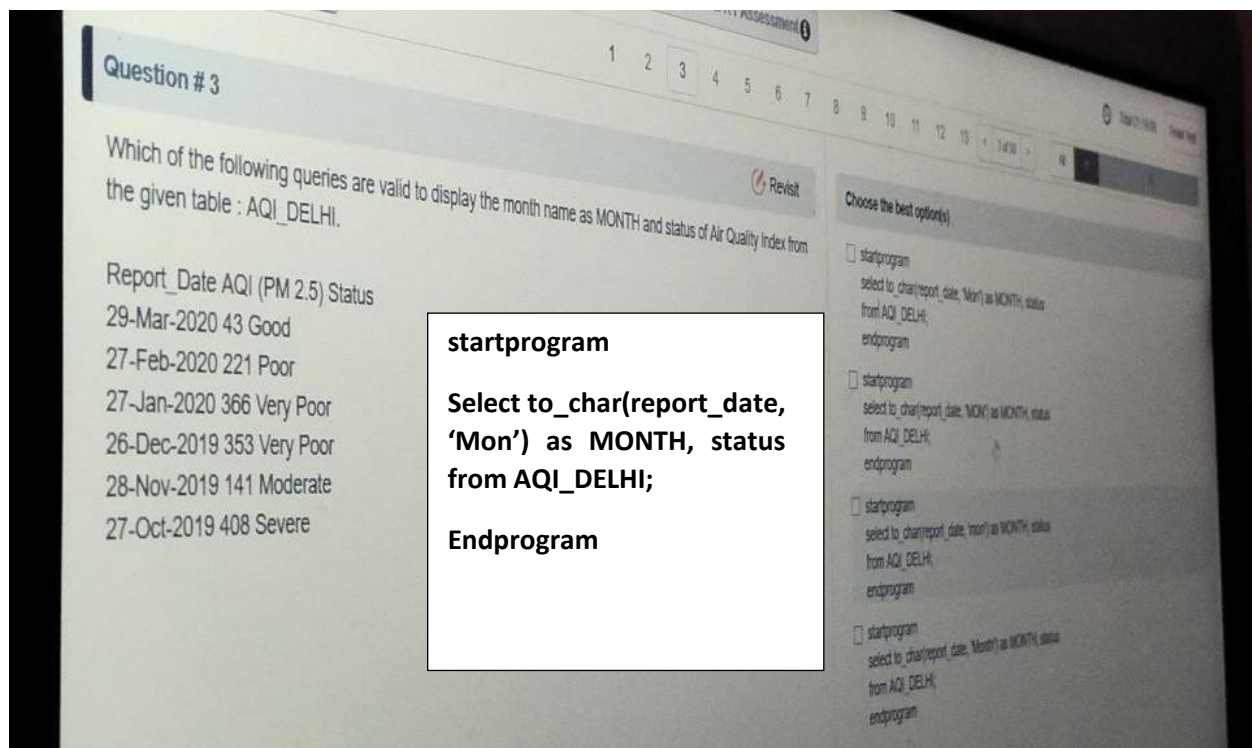
Identify the incorrect step(if any)

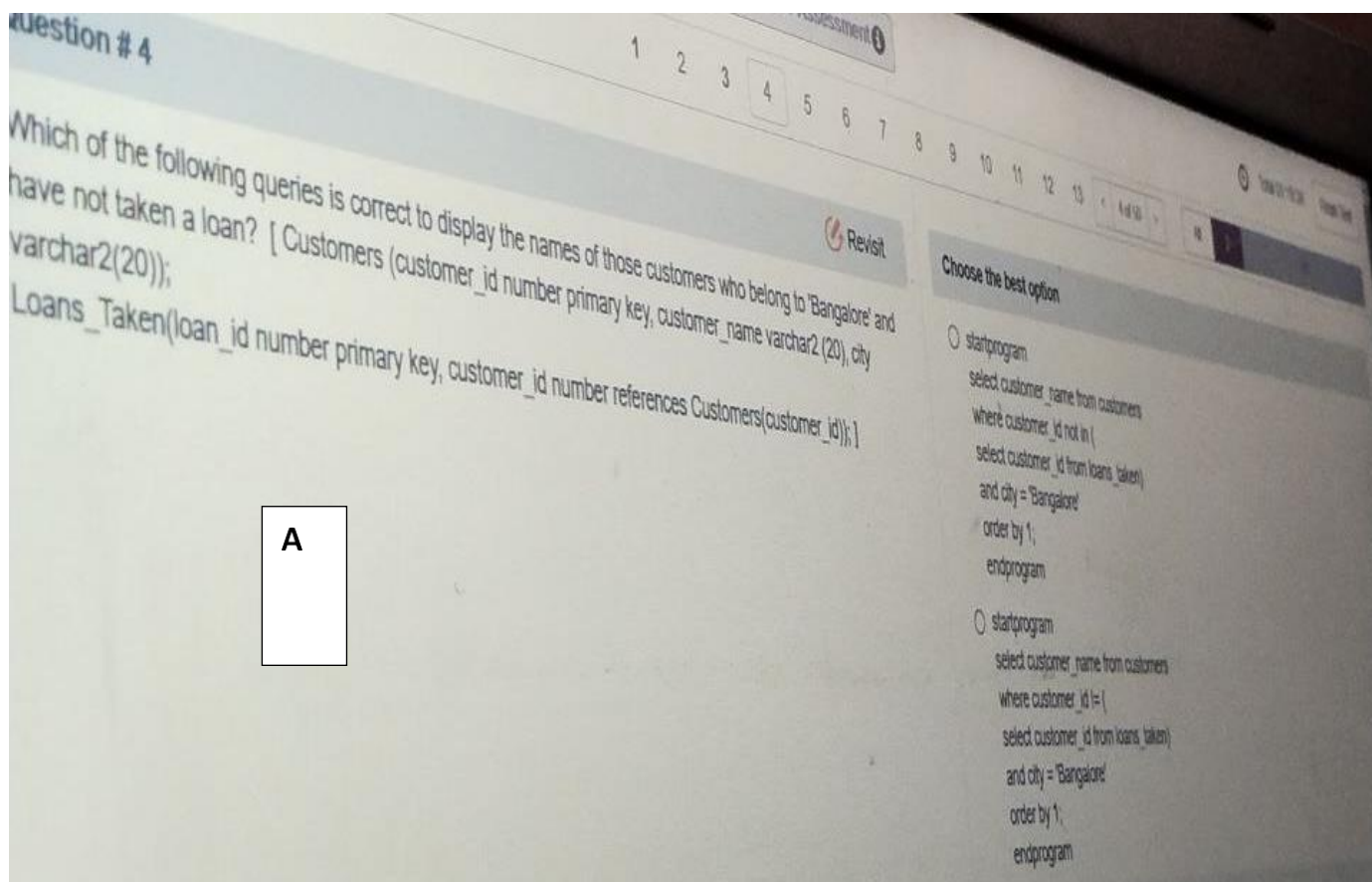
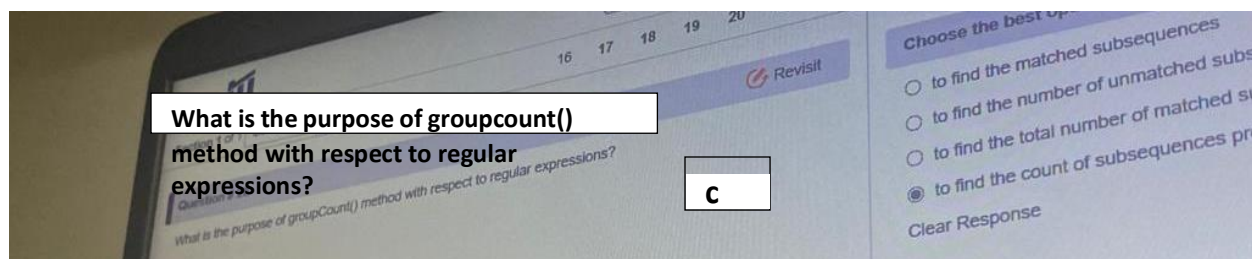
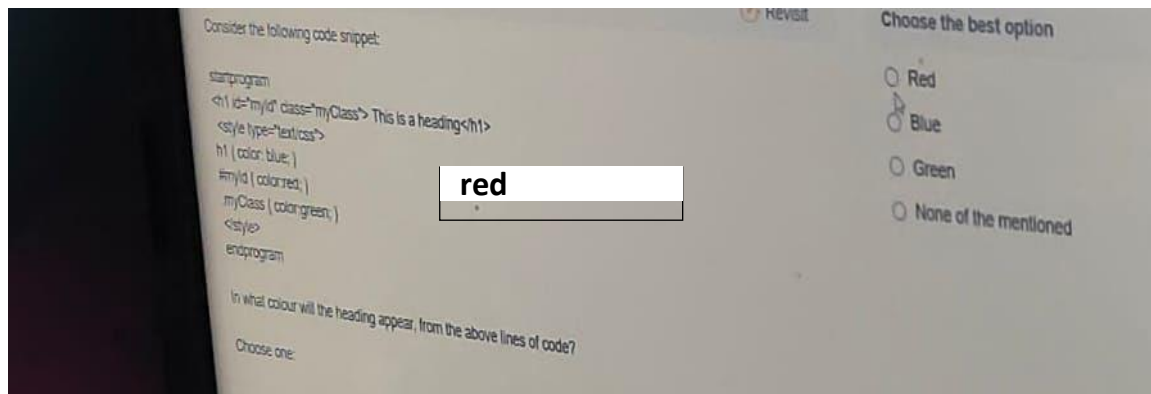
Ans= step4

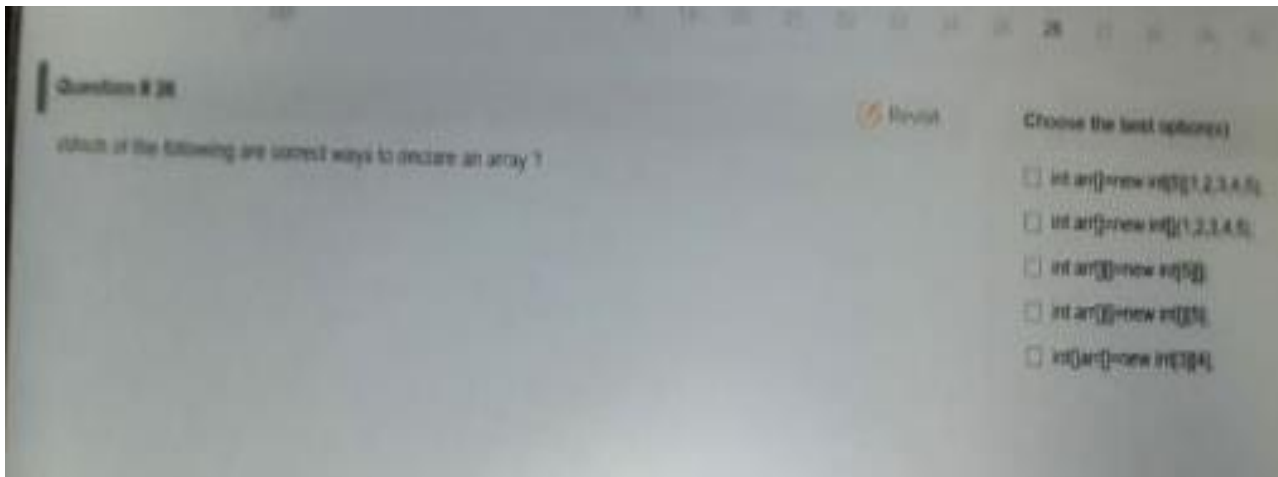


A









Ans= b and c

```
import java.util.ArrayList;
public class testuserMain{
    public static void main(String[] anrgs)
    {
        ArrayList<String> a1=new ArrayList<String>(5);
        a1.add("Ten");
        a1.add("Twenty");
        a1.add(4,"Fifty");
        a1.add("thirty");
        a1.add("Fourty" );
        System.out.println(a1);}}
```

Ans= indexoutofbound

```
public class Parent{
    public static final void displayATMAMOUNT()
    {
        System.out.println("500000");
    }
}
public class child extends Parent{
    public void displayATMAMOUNT
    {
        System.out.println("600000");
    }
}
public static void main (String[] args) {
    child c=new child();
    c.displayATMAMOUNT();
}
```

Ans= CTE

which of the given phases consume more time during software life cycle
correct op9on: **Maintenance**

114. Which of the given options define a set of activities that transform the client needs to an effective software solution

Ans-Software planning

Software cost estimation

Software development process

Software resource planning

. Root is super user in unix operating system and it is represented using _____

Ans=/

. Choose the statement that true about Class?

Ans

Class is a dynamic component

Class is described using attributes and methods

Change the class to change the state of an object

Class properties depends on object properties

. Carefully read the question and answer accordingly. In an array, if an item to be searched is found in the middle of an array then it is said to be _____

ans= average case

. Which is the correct implementation for a progress bar in HTML5

Ans- #review

<progress value="20" max="100"></progress>

```
Class bird{  
System.out.print("b1");  
}  
public Bird(){  
System.out.print ("b2");  
}
```

Correct answer:r1 E2 Testman b1 b2 E1 r2 M1

```
class ClassA{
```

```
protected void show(){
```

```
System.out.print("Super Class Method");  
}}
```

```
class ClassB extends ClassA  
{
```

```
private void show(){
```

```
System.out.print("Sub Class Method");
```



```

    }

    public static void main(String[] args)
    {
        ClassB subObj = new ClassB();
        subObj.show();
    }
}

```

Ans=compilation error

Which of the following is used to reference data that can act as an abbreviation or can be found at an external location?

Ans- ENTITY

In a CSS script, each property of an element is separated by a _____

Ans – semicolon (;)

46. Which jquery syntax hides all the paragraph elements

Ans-

`$("p").hide();`

```

Integer i=new Integer(-5);
Double d=new Double(new Integer(-6));
System.out.println(i%d);
short no=4;
System.out.println((no-i)*d);

```

Ans= -5.0

-54.0

Predict the output for the given pseudo code snippet

SET count = 1

WHILE count less than or equal to 5

print "Hello, world"

count = count+1

END WHILE

Prints “Hello, world” 5 times

At which level of testing the non functional requirements are tested?

System Testing

Consider a scenario: You have written a code to display a menu on the screen and some operations are performed based on the given user input. Which control structure would you use, so that the menu is guaranteed to show display at least once on the screen, before performing the operation.

Do-While

Which two phases of Feature Driven Development are repeated until no more features exist?

a. Develop an overall Model

b. Plan By Feature

c. Design By Feature

d. Build a Features List

e. Build By Feature

What does public Boolean lookingAt() method do?

Attempts to match the pattern partially or fully in the matcher

A primary key can have NULL values. State True or False.

False

Name the type of join used to include rows that do not have matching values.

Outer Join

Meta data is described as _____ in SQL?

Data Information

_____ is a conceptual teamwork where software is developed in iterations

Agile

Many _____ are delivered in an agile process

Builds

Expand DSDM

Dynamic System Development Method

Which of the following are features of BitBucket?

Code Review, Pipelines, Build Integrations, Jira Software Integrations, Trello Boards, Different Views, Projects, IDE Integration

Trello Boards, Different Views

In Code Phase, requirements and feedback are gathered from customers and stakeholders

False

Which plugins are the appropriate functionally plugins used in multibranch pipelines for validating the pull or change requests

a. Github Branch Source

b. Github Main Source

c. BitBucket Branch Source

d. BitBucket Main Source

Predict the output

What will be the output for the given code snippet

startprogram

```
public class Main{
```

```
public static void main(String[] args){
```

```
int a = 10;
```

```
for (int i=3; i>=0;i--)
```

```
try{
```

```
System.out.println(a/i);
```

```
System.out.printing ("End of try") ;  
}  
catch (ArithmeticException e) {  
System.out.println(e);  
}  
}  
}  
endprogram
```

3

End of try

5

End of try

10

End of try

java.lang.Arithmetic Exception: / by zero

Predict the output

What will be the output for the given code snippet

```
startprogram  
public class Main{  
public static void main(String[] args){  
int[] m = new int[13];  
System.out.println("m[0] is “ +m[0]);  
}  
}  
endprogram
```

Ans: 0

Predict the output

What will be the output for the given code snippet

```
startprogram  
public class Main{  
public static void main(String args[]) {  
int arr[][] = new int[3][];  
arr[0] = new int[1];  
arr[1]= new int[2];  
arr[2]= new int[3];  
int sum = 0;  
for(int i=0; i<3; ++i)  
for(int j=0; j<i+1; ++j)
```

```
arr[i][j] = j+1;
for(int i=0; i<3; ++i)
for(int j=0; j<i+1; ++j)
sum += arr[i][j];
System.out.print(sum);
```

Ans: 10

Statement for a logically cohesive module, there are some activities to be implemented. These activities are performed from inside the module itself.

Is the above given statement true? If not, choose the correct option to make it true.

The activities are selected from outside the module

_____ testing is done by the client in the real world environment.

Beta Testing

If you are asked to do a modular software design, which combination of coupling and cohesion should you use for designing the software?

High cohesion and low coupling

Which of the given statements is true about XP?

XP narrows down towards a single project, developed and maintained by a single team.

XP will not work in an environment where the manager insists on complete documentation before the team begins to code.

XP will work in an environment where programmers are separated geographically.

Raghav has developed an application to automate the billing process of the Aarvee Departmental store. When the product is in operation, the client found that in the place of phone number, it prints the Customer ID.

What type of maintenance does the above scenario depict?

Corrective

Which one of the following is a correct declaration in Java?

Char[] Tic = new char[19];

Scrum divides the development into short cycles called _____

Sprints

Information hiding is achieved through which OOP principle ?

Encapsulation

Arrow symbols in the flowchart is used to show the sequence of steps and the relationship among them. State True/Faise.

True

Does the special group and group 0 is included while capturing groups using the groupCount in Java

False

Predict the output for the following statement. Select substr('Yellow is A Colour',1,5) from ...

Yello

Agile is useful when the client requirements are not clear or requirement frequently changes.

True

Which of the following declarations will cause a compile time error?

String[] nameArray = {5,3,2};

Which of these are not agile methodology?

BPM

Agile Technology does not accepts change of requirements at any stage.

False

In a relational database a referential integrity constraint can be done using

Foreign key

Which one is YAML's basic building block?

Key Value

Which of the given options are true with respect to arrays?

The elements of an array can be accessed using index.

Pinky and Raju are working on an Insurance project. They are not aware of SVN. So they created a common project on the server. Both retrieved the project from the server. They made relevant changes to the file. First Raju saved the changes to the server. Next Pinky saved her project. Identify which of the given statements are true.

Pinky's project over writes the changes done by Raju.

Which kind of control structure is used when we don't know the exact number of time when a code need to be executed

While

The practice of automatically provisioning a new environment at the time of deployment is referred to as _____

Infrastructure-as-Code(IaC)

College management is in need of the report of students exam result. For this Tom has to join the tables students, courses, registration, exam, final_project. How many join conditions are needed to write the query.

Ans: 4

Predict the output of the below query. Select max(salary), min(salary), sum(salary), avg(salary) from employee.

Will display the max, min, sum and average salary earned by the employee

In multibranch, the pipeline names should not contain _____
Spaces

Which of the following takes more time?

Design

Testing

Maintenance

Feasibility

Predict the output

What will be the output for the given code snippet

startprogram

```
import java.util. regex.*;
```

```
public class Main {
```

```
public static void main(String[]args){
```

```
Pattern p=Pattern.compile("\\d");
```

```
String test="India123";
```

```
Matcher m=p.matcher(test);
```

```
if(m!=null){
```

```
System.out.println(m.find());
```

```
System.out.println(m.matches());
}
}
}
Endprogram
```

True
False

Predict the output

What will be the output for the given code snippet

startprogram

```
public class Main {
public static void main(String args[]) {
int arr[] =new int[] {0, 1, 2, 3, 4, 5, 6, 7, 8, 9};
int n = 6;
n = arr[arr[n] / 2];
System.out.println(arr[n] / 2);
}
}
endprogram
```

Ans: 1

Predict the output

What will be the output for the given code snippet

startprogram

```
public class Main {
public static void main(String[] args) {
try{
    System.out.println(4/0);
    try{
        int[] a = {1,2,3};
        System.out.println(a[3]);

    }catch (ArrayIndexOutOfBoundsException e){
        System.out.println("Out of bounds");
    }
}catch (ArithmeticException e){
    System.out.println("ArithmeticException : divide by 0");
}
}
}
Endprogram
```

ArithmeticException : divide by 0

Predict the output

What will be the output for the given code snippet

startprogram

```
public class Main {  
    public static void main(String[] args) {  
        int[] m = new int[13];  
        System.out.println("m[0] is "+m[0]);  
    }  
}
```

Endprogram

Ans: The program runs fine and displays m[0] is 0.

Predict the output

What will be the output for the given code snippet

startprogram

```
import java.util.regex.*;  
public class Main {  
    public static void main(String[] args) {  
        String s = "ABC";  
        Pattern p = Pattern.compile(s);  
        String r = "ABCABCABCABC";  
        Matcher m = p.matcher(r);  
        System.out.println(m.lookingAt());  
    }  
}
```

Endprogram

Ans: True

Predict the output

What will be the output for the given code snippet

startprogram

```
import java.util.regex.*;  
public class Main {  
    public static void main(String[] args)  
    {  
        String s="REGULAREXPRESSION";  
        String =  
        s=s.replaceAll(r"." );  
        System.out.println(s);  
    }  
}
```

Endprogram

Ans: ,R,E,G,U,L,A,R,E,X, P, R,E,S, S, I, O, N,

Predict the output

What will be the output for the given code snippet

startprogram

```
import java.util.regex.*;
```

```
public class Main {
```

```
public static void main(String[] args){
```

```
String s="India";
```

```
String r= "\\\"";
```

```
s=s.replaceAll(r,"a");
```

```
System.out.println(s);
```

```
}
```

```
}
```

Endprogram

Ans: PatternSyntaxException