Q1.) Compare white box testing & black box testing.

Ans

- ~ In the field of software testing there are mainly two types of testing.
- ~ These are so common that they are intulively used in the software.
- Here is a comparion between these methods of Cesting:

White Box Testing

- ~ Also knowas: demorbox, glassbox, openbox er path dou'ven testing.
- Testing technique that

 derive its sources from

 the software it self
 literal code
- ~ The bester is empowered with the knowledge of source code or program.

Black Box Testing

- ~ Also known as: closed box, or behaviourly testing.
- Testing technique that.

 derives it sources from

 the behaviour or

 expetled readion of the software.
- The source code is hidden from the lester, he she cannot auss at.

- The to this knowledge the fester can choose the path through the software.
 - ~ This testing will help to bring corner cases to light.
 - ~ White box testing is costly as its requies programing Know-how.
 - This testing lates up more
 time due to the manual
 in spection of code.

 (unless you've using modern
 bots like codacy)
 - ~ White box hosting can help in refactoring the source code to optimize.
 - The source code is coved using path, branch baren = 3 < statements

- ~ The domain of testing is very limited due to hidden code.
- " This festing will be more helpfut to identify abnoralities.
- ~ Since literal programing knowledge is less it is sugarious it is less relatively cheapet.
- completed earlier as it mostly deals with the external interation of busoftware.
- ~ Blade box fest to will reamain only as pointers to these improvemb that are to be brought about.
- Since the sourcecode is not directly arranable it tries to split applications based on its function and downin.

The main type of white box testing is: Control Stoucture lesting - Branch Testing - Condition Teo Fing Dala flow Festing Loop Testing.

~ Blackbox testing has different methods -0> Graphical Method -0 Equalance Partitioning - Boundary value Analysis -0 Orthogonal Array tooting

~ eg:-

~ I've gone through the OS repository of the elementy OS organization on

git hule. there's - In that repository there's · line a pyrnon file which take system arguments when

~ Initially it was done in 6steps but it could have been don more easily using a loop.

~ 50 tre refactoring of code is a result of white box testing. eg:-

- There's and Todo application called Planner written in Vala language for elementry OS.

~ Itis avaiable on Github.

~ Since I was not rearry familary with Vala It could not manually parise through the source code.

~ But I foud some abnomulities like the togglebutton not working proply, or "&" charder gets dissolved.

Now this is a type of black box testing boonse. is more fousedon the. behaviour man code.