### Assignment - I

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Ques-	LION	~
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cist out features of Java. Explain any two features

The most important features of the jaua language, is given below.

- 1. Simple
- 2. O bject oriented
- 3. Postable
- 4. Plate form independent
- 5. Secured
- 6. RObyst
- 7. Achitecture ne utacel.
- 8. High per formance
- 9. Multitheaded
- 10. Dynamic

#### 1. simple:

Java is very easy to learn and its syntax is simple, clean and easy to understand. According to syn Microsystem, Java language is a simple programing lenguage beacuse:

- Java synteoc is base on c++
- object beacuse, there is an automatic ourstage,
  - 2. Object Oriented

language. Everthing in Java is an object, object.

means we organiz our software as a combination of different types of objects that incorrected both dute and behavior.

\* trongrampica

de velopment and maintenance by providing some

- 1. Object
- 2. Class
- 3. Inheritance
- 4. Polymorphism
- 5. Abstraction
- 6. Encapsulation

#### Question - 2

explain type-conversion in Java. Explain widening and narrowing type casting.

that converts a data type into another data type in both ways manyally and automatically.

automatic conversion is done by the, compiled and manually conversion is done or performed by the programmer.

In java type-conversion is eaclassified into two types

- I. widening (automatic)
- 2. narrowing ( implicit)

clouble -> floct -> long -> int -> shoot -> byte

widening Type costing:

Converting a lower date type into a higher one is called widening type casting it is also know as implict conversion or casting down. It is sufe beacuse there is no chance to lose date. It fake place when

Both dute type must be competible with each other.

The terget type must be larger than the source type.

byte & Short int + long - + Float - double

## Narrowing Type custing

converting a higher data type, into a lower one is called narrowing type casting it is also know as explict conversion or casting up. it is also done mannually by the programmer. if we do not restored casting then compiler report run time en

double - Flocat - long - int - short - bype

Gaestion-3 Explain JRE , JDK and JIT.

JRE

(Java - Ryntime - environment) is the past of the Java Deviopment kit (JDK) it is a freely available software distribution which has Java class library. Specific tools and a stand - alone Jum. It is the most comman environment available in to the device to run java program.

as Java web start.

commectivity (JPBC) and JNDI

JDK ARREST A TRUE SOUTH TEEFINE SAF

is software development environment which
is used to develop javia applications and applets
its physically exists it contains JRE + development
tools.

Enterfaise caition Javapleteform

Micro Edition Java Pleteform

JIT (Java - in-time)

JIt 15 an integral Part of JUM (Java vertual machine). it accelerates exection performant many time. Over the previous level in other work

it is a long across					
that provide the best performance emulatione program					
JIT convert high level language conference envisonment.					
JIT convert high level language code into a machine code (bytecode). JIt stands for level in to a machine					
code (bytecode). JIt stands for Java-in-time compiler					
JDK.					
JRE					
MUE					
JIT					
to the sold of the					
The second secon					
Question-4					
Cxplc in a civil and					
explain giving chample: create, compile and					
execute a simple sava progresson.					
let's use the command window prompt (cmd)					
and open el text eaiter such as notepad to					
creche tou java source - code file welcome. Java					
welcome.Java					
cet's crecete a Java progrem and name of					
this file to welcome . jauq:					
The second of th					
Public class welcome of					
public static void main (staing [] args)					
d					

34stem. out. Printin ("Welcome to javaj"); Hegr, we create simple java code progreim compiling Java program A Java compiler translates Java source file into a squa bytecode file let's use following command to compile welcome Java file. Javac welcome Java If there aren't any syntex error, the compiler genrates a by tecode file with a class extension, Thy this command generates a file name welcome Jou executing Java program cet's use the following command to execute the byte code Java welcome

The output of the above program display the

message "Welcome to Jauqi

Question-5			
compare Object-Oriented Progress with sequen			
-tial programing,			
Object - oriented	Sequential/procedurel		
brodrawing (OOb)	Programing (POP)		
	- white will the trivial		
it deals with data	it deals with algorithms.		
(1) 13 - A THE BOOK A	the state of the s		
- program divided into	+ Program is divided into		
Objects	functions.		
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Commence of the Commence of th		
- it needs more memory	7 it need less memory		
-) it follow BOTTOM - UP			
approach	7 it FOLLOW TOP-DOWN		
- GGCK	approach		
-> overloading is possible	-> Overloading is not possible		
with polymorphism	- overloading is not possible		
Control of the second second second			
+ it's highly secured	-> it's less secure.		
TOUR P. C. Bright Spirit			
- pater hiding is possible	. > parter hiding is not Possible		
with encupsulation and			
Abstraction.	CONTROL COMMERCES		
= Example: c etc.	example: C+t , jaug etc.		

# Assignment - 2

DATE : PAGE NO.

	S GOILOND	
Question - I	and the same of th	
Difference between po	on while and while.	
Difference between po while and while statement.		
the transference of the same		
while	do while	
	do white	
ondition is checked.	-> Steutemen+(s) is execute	
first than statement		
(5) is executed	tion is charled	
	tion is checked	
it might occyr steeteme	- At least once the steete	
nt(s) is executed zero	ment(T) it comes the steere	
time, if condition is false	mentros is carecuted.	
73 10(		
no semicolon at the	semicolon at the end of	
end of the while.	while.	
while (condition)	while (condition);	
1 (11112018		
while top- loop is	do while 100p is	
entary controlled loop.	exit controlled loop.	
	tricined (00).	
while (condition)	300	
4	Steetement (5);	
Steetement (5);	4	
4	while (condition);	
	day.	

Explain break and continue Statement with example.

The break and continue steetement are jump Steetements that are used to skip some statements inside the 100p or terminal the 100p.

in saud, a break statement is mesory used

To exit a 100P

used as a 'civilized' from to 90 to
Terminal a sequence in a switch statement.

class GFG?

Public Steetic void main (string (Jargs))

forlin+ i= 0; i<10; i++) &

if(i==5)&

break;

بخ

SYStem. Out. Pointin ("i; "+i);

7

output

7 0

i · 1

1 . 2

: 3

1: 4

continue:

A continue statement in saug is used to skip the current iteration of a loop. We can use confi mue statement inside any type of 100Ps such as for while and do. while 100P, com

Generally continue use in the situation when we want continus the 100P but not want the remaining statement after the continue statement

Class of GP

Public static void main (string (Jares)

The property and property

for (inti=0; i(:5; i++)

if( i == 3) &

System. Out. Paintln ("i="+i);

Output

1 = 0

Question - 3 worte a Java progrem to Print first 10 fibonacci number using for loof.

class fibonacci &

Public Steelic void main (string () args)

Bito to como acopy Reports (congressors)

int n= 0, n= 1, n3, 1; int count = 20;

system. out. Print(n2+""+n2);

For Ci=2 ; i < count; i++)

r

ng: ng+n2;

545+orn. Out. Print (""+n3);

n= n2 j

m2 = m3 ;

=

Output

0 1 1 2 3 5 8 13 21 34