```
W.EEK. 1. - D.A.Y. 1.
27 . Concept 1:- 10. Operations:
    . Here. Output Operation. is very Simple.in.
     j ava.
     Syntax :-
          System. Out-print. (. Welcome to BOOTCAMPM);
                  · This is used to print the code in
                  · For printing the code in next
             gystem.out.println ("10 operations");
     Desput Operations:
    · Por input operations coe have
     geanner. class. in. java.
    · Poir this we have to import the seanner file.
     from. the import java util Scanner; command.
     · Syntax :-
          Seanner variable: = new Scanner (Systemin);
               int varible 2 = variable 1. next Int ();
```

Example. 6-.

Scanner Sc. z. new. Scanner (System.in)? int. n. z. sc. next Int. ();

the. 3 cannon me. thools. for. (e). 80me. of.

data types are. Primitive.

oint -> nextInt ();

·float -> next ·Float ();

· double. -> next Double();

· long -> resettong ();

. Short -> next short ()3

... byte. -> next Byte us;

· booleam->next Boolean();

for the coord. we use only Note :- Only next 10.

ine oword -> next. ();

Follows the Camel. zir. Coding. in. Java.

Casing Concept.

Ex: 1) prudhvi Gopal.

2) studen (Name.

```
oblobley. Week1 - Day 2
    Concept.2 ... Arthamatic. Operations along with
    Type. Carting.
(i) What is meant by type casting ?
   ·Type. Casting. me.a.ns. Data. Lype. Conversion.
    · It. also follows. the order:-.
        By te., short, int, long, of float, double.
                Conversion. Possible.
                Conversion Not. Possible.
 =7 If. we assign. tint = char] -7. This lead to compilation
      fo. al. x. 212.24; int. x 2125
                         float a.
      int az
       a = . *. ,
                             a. 2 12.00;
                         ran. this we have.
     if. we. coant to.
     to force the Java. Compiler by wing
      By ntaxe:
          a = (int) ×; / a = . (data-dy pe) b;
```

Operators o-* We have 7. types of Operators. In Java. 1. Arthamatia Operator: + -> Addition - -> Subraction * -> Multiplication / -> Division % -> Modulo Division glues remain. der. 2. Uniary Operator ?-Uniary Operator: - > ++a. -> Pre Increment. ()
++ -> Increment - > 2 Increment. 2- -> Decrement - [> --a-> Pre. Decrement = 3. Assignment Operatols:-= -> Equal to.-> a=a=b t= -> a+=b ->, a=a+b = ? -= -> a-=b-> a=a-b = ? * = b -> a = a + b; 1= > a.l.=b > a = a/b;

S.

4. Relational Operators, -5] Logical. Operations: OR. -> 4 Performs. logical Operations

AND -> SS Taked on their truth.

Hables of the Operators. 6) Terenary Operations: int a = 7.9 int b = 10; int max. = (a>b) ? a:b: if condition max. value = . b:

atisfies. max.value.=a;

Bitwise. Operatorion

Sigle bit perform AND Operation.

| ______ Single bit perform or Operation.

>> _____ Right Shift Operation.

Left shift Operation.

2

Week-1. Day 3 Concept3: - Conditional Statements switch car. 27. PIP. Condition: This is conditional statement i.e ued. to perform a specific took. based. on the Condition. In it statement. if the condition exists them only exectues the Trogramme.
In It clse. condition if the condition 1. is true then the first statement block will be executed. order where the condition. The if condition the if condition Pitself. hos. a inbuilt if condition in.

Syh. tax. oif (conditions) ?

if (Condition). ? 3. Bolock-1; else

f Block -2; if (cond)? if (condi) Z Block 1; the pass is home else {
3 lock - 2 j 27. Switch Cax :-· Switch coop is used. For the to perform the multiple operations to based on the. given Expression. The Operation releaded to given Expression will be performed.

08/06/24. Week! - Day 4

Conception: Taking character as an input . 2. also concept of loops.

Taking. Character Input. :-

· I'm java. you can take an input as a.

word. is easy as same as using next () Syntato.

· Bet taking a single letter as an input in a. word makes a. special Por this your need. to we character. Input.

· <u>Syntax</u>; - ch; etos ch; etos char. A.t. (o); In this, HELLO of motor or method

Represents the Singles characters

a). Print: - 19 if. input character. b/w (A-Z) -1 9 if. input. character b/w (a-2) Og if input not a charactor.

27 Novity. it in the US Code provided in Grithub.

e7. <u>Loops</u>:-. A. loop is thing that executes the. statement block. Continuesly. untill the condition. g alistic . We have three parts in a loop: .7. Intialization. -7. Says where to start. -7. Condition. -7. Says where to end. ar. Increment. De crement. -> ? Says how many thats
incldec incldec verquired. to each
coteps required. iteration. Pot tested Pre. - tested loops do while. 2

while loop first the loop. condition

In. Pre-tested. loops first the loop. condition

Execute. then if condition. Satisfies after.

that statement Block executes - Otherwise

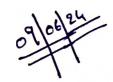
it will terminate the loop.

1

=7. while Block: Intialisation.

while (condition); statement block; inevenont Decreut; next statement; Por loop Block. for (intialization; Condition; inc./dec.) } statement block ; next. statement; Do while or Initialisation; statemet block; cehile (condidion.) Ex. &- Menu. Drive. Applications. 1

AKE



Weekl - Days

Concept 5: - Methods, Break. q. Continue:

- · Methods. in java: is nothing but the functions
 Concept.
- Method. consists of a Block of eade. This Block is named with a name. Called Method. name.
- If we want to how an operation. to be performed multiple times. that block will, be witten as a method.
- Then whenever is it necessary during. that time we can call that method & up it.

27. Advantages.

- . No need. of Code Repetation.
- · Code will. be. clean q. Understandable.
- · Increased. Readability.
- · Space Reduction

27. Syntax. of Methods 6returnity pe function. Name (Parameters) ? eight salos for dealt of observes hadrall Block of PCN Execution; Fair Call dong with the codes 250. Ziu. 500 (PCNB) FENA return dype.

Return type: I. I. the function need. 10. be. return. value. to the function callen then we can be apply the veturn type boxed on ousitautast some

that value.

27. Kewords Break. & Continue: statement will. 8. used. the loop a stop execution of remaining iterations. & remaing block. statement in the loop while (125) { if (= = 2 2) { System out print In (a); 5) Continue :-9 is used. ship. a. particular rohile (acs) { if (i==2) 2. 9 9

3 Systemiout println (i);

0

Week. 1. - Day 6

1 Arrays: · variables E. characters. au only wed to store the single. L'alue information.

Here, came the problem chen you want. stole.-a. large. amount of data. wing the. variables.

· So. to avoid. This problem the concept of arrays are Introduced.

· An arrays. are used to store the Multiple. Elements of the-same data type.

Synbax. F.

A.vrays are, wed. to create objects in jalo java by wing the key word newdatatype[] array nane & neco datatype[s)ze];

int[] array 1. = new int [87; · Tou acces the clement. | a tray [1] 2. 2.

. This single clement insertion is not possible for all, times when we want to insert multiple

Usell - Dout

elements.

In that case the following Example 12 wed:

> int no par size. int. n.= sc. next Int. (); -> storing array size. intacni -> Declaration of an array

for. (int 1:00, 12ng 1++) [a [i] z.sc. next. Int. (5); \ -> In this tolock. single

single Element

The above to store multiple chemients in the arrays at a time carily.

What wifn gour want to store Elevets in the both vous & redoums ?

V Jak	E.
Week1 - Day 7	
Concept: 7 90 Augus	=
The American State of the State	
Types of Amrays or	C
Variables	.65
TITITIO -> .10 Array.	0,5
THE 20 > 20 Awags.	(I)
	200
The last one 20-> our ago. The last one 20-> our ago. To this 2D away we con store the elements. The this 2D away was both vous &.	0
in such a way. that in both vous &.	
Coloumn.	
This can be used in the Mattrix.	
this can	
A piphie ations .	
This. is also used. in the 2 Dimensional.	0
this 18 also as ear	
Shapes. like the rectangle, square chei	0
a to the man of the	
Syntax :-	
datatippe array name [][] = new congréssions	ম 🦳
datatique array name [][] = new datatype.[31][s	
seems seems and a seems of the	