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	Pand PS (Theory)  Assignment No. 1	
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1>	What is the difference between =	= symbol and = = symbol?
Ans -	= and = = both are operators is  → = is assignment operators used  Associativity is Right to left:  → == is Relational operator which  values:	n c language. to assign values. It's
	→ == is Relational operator which	is used to compare two
	eg: int a = 5, b = 10, c; c = a; // Hore value of a if (a = = b) // Hore we comp	is assigned to c.
2>	When a "Switch" statement preferab	
Ans.	· Switch statement works better than when we are giving input directly checking in the statements.	multiple if statements without any condition
	· Switch works well suchen we we we readability of the code and many	atternature mailable.
	of calculating the range make them assigned to it properly and use	as cases with number



3) In a switch statement, what will happen if a break statement is omitted. Ans- If, in a suitch statement we omit the break statement then it will execute all cases from the case started.

eg:

case 1:

case 2: case 4:

printf ("nhe are in case 4");

default:

printf (" In he are in default (ase"); of ch = 3, then output will be

{ we are in case 4
}
we are in default case. 4) Is that possible to store 32768 in an int data type var In DOS based 16-bit architecture it is not possible to stone 32768 in an int datatype variable because int is 2 byte size in DOS based architecture and ranges from - 32768 to 32767.

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5) What are the valid places where the programs can apply continue statement? Ans- The continue statement is used inside loops when a continue statement is encountered inside a loop, control jumps to the beginning of the loop for the next iteration,
skipping the execution of statements inside the body of
loop for the current iteration:

eq:
## include < stdio.h > Dutput: int main () {

int i; 1 2 4 5 for (i=1; i<=5; i++) { if (i = = 3)

(on tinue:

printf (" /. d", i);

return 0:
} I here 3 is skipped from iteration. 6) What are the advantages of an array over a simple variable.

Ans- of me require a bunch of variables for the same data type.

then simply declare an array rather can declaring variables.

eg: int a, b, c, d, e; // declaring 5 int variables individually.

int a [5]; // declaring 5 int type nariables by arrays.



If we declare on array dynamically then we save memory format suhere individual variable declaration doesn't facilitate it. By operation on away reather than individual variables reduce length of code and easily readable. Describe how away can be passed to a user defined Ans If we create a user defined function and pass on array to them then actually we don't pass the whole very use can just pass the base adobress of vioray.

eg: //sum of 5 numbers. int sum (int (3, int); int als] is print ("Enter 5 elements in avegy: ");

for the =0; i<5; i++) Scanf (" 1/.d", &a[i]); S = Sum (a, 5). Il passing base address of array printf" Lim = 1.d", S);
return 0;



int sum (int a [], int n) int i, s=0;

for (i=0; i < s; i++)

S += a[i]; Foretween S: 8) Explain the difference between delete and delete []. Ans- Delete is an operator which is used for releasing the dynamically allocated memory in C++ Jor a single object created with new operator. I delete [] operator deallocates memory and call destructor for an away of objects wested with new operator. 9) What do you mean by nested for loop in a programming? Ans. If in a program a far loop is inside a far loop exist,
then this is called a nested far loop.

\* \* \*



# include < stalio.h>

int main () {

int i, j;

for (i=0; i < 5; i++) {

for (j=0; j <= i; j++)

printf (" x ");

printf (" \n");

} return 0;

10) What is the difference between while and do-while bop in ()

Ans - While Do-While

- Condition is checked first . Statement is executed attent once then statement is executed . then condition is checked.
- · No semicolon at the end of semicolon at the end of while condition
- \* While is entry controlled. Do while is exit controlled.
- of there is a single statement. Breachet are always required breachet are not required.
- while (condition)

  ? statement (s);

  3 while (condition);