

Samai Adas Tedadogical Invitate Vidida

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Question ol: - Implement algorithm to perform with metic operations blue two numbers and numbers is input by the keyboard:
Answer ol: -
Code:-
include < Stolio.h >
int main () §
int num 1, num 2;
paint (" Enter the first number: ");
Scanf (" 1.d", 8 num 1);
print (" Enter the second number: ");
Scanf (" 7.d", & num 2);
prints (" Sum of entered number is: 1.d \n", num1+num2);
prints (" Difference between the entered number is 1/d \n",
num1-num2);
printy 1" product of enterted number is 1.d In " num 1 * num
posint "On porform division we get quotient is 1.d \n" num /nu
giaturin 0;
3
Outpot: - Enter the first number: 23
Enter the second number: 7
Sum of entered number is: 30
Difference between the enterted number is 16
product of entered number is 161
On por form division we got quotient is 3



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question 02 swap	ing oftenant	algorithm by the	using	perform of this	the d variable
Answer of Codes-					
int main (-			
Period !	m1, num2, temp; "Enter the value o "7.d", & num 1);	f number 1	: ");		
scanfl	" 1.d", 8 num 2);	of number 2	:);		
numi	= num 1; = num 2; = temp;				
point	"The value of o	number 1 is	%d\r	n", Num1););
3 Jahr	no,				
Out but :-					
Enter 4	the value of num	per 1: 25			
ENOU +	he value of numb	men 2: 15			
	he of number 1 is				
The uc	lue of number 2	18 15			



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Question 03: - Implement algorithm to perform the swaping of two number without using the third variable Answers-Code: -# include < stdio.n> int main () 8 int nums, num 2' Diring ("Enter the value of florer number:); Scanf (" 60° (.d", 8 num 1); printf (" Enter the value of second number:); 800nfl" 1.d", & num2); num1 = num1+num2; num2 = num1 -num2; nowl = nowl - nows. pint!" The value of number 1 is y.d \n", num 1); paintfl" The vertue of number 2 is "din", num 2)! A3 OUT AUT: -Enter the value of first number: 95 Enter the value of second number: 15 the value of number 1 is 15 The value of number 2 is 25

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Question 04: - Implement algorithm to calculate the factor
of a given number and number is entored by
the keyboood
Answer:
Codes -
include <stdio. h=""></stdio.>
int num, fact = 1;
int factorial (int num) &
if (num ==1) &
Dreturn 1;
3
else á
fact = num * factorial (num-1);
return fact;
7,
3
int main () {
paint (" Enter a number: ");
800nf (1"/6d", 8 num);
parint (" factorial of entered number is /d In"
factorial (num));
Intuino;
3
OUT PUTS -
Enter a number 5



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Question 05:- Implement algorithm to Albonacci services.	point the
Anguser c-	
Codes-	
# include < stdio.h>	
int fibonami (int num)?	
if (num ==0) &	
Iredom num;	
3	
else if [num = = 1) }	
; mun neutre	
3	
else 9	
return fibonacei (num-1) + fibonacei	rci(num-2);
3	**
3	
int main () {	
int num;	
printf(" Enter a number: ");	
Scanf (" %d", 8 num)!	
paint (" fibonace serves is: ");	
8(++i; mun=>i; 0=i+ni) reat	
parint ("/d (t"; fibonacci(i));	
3 ' '	
graturn 0;	



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10	outputs- Enter a number 10	
V		21
N	34 55	,
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1		
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	Question 06: - Implement the algorithms for the traverse
	Answer:-
_	Code-
#	t include < Stdio.h>
1	nd main () §
11111	int num;
	pointf (" Enter the number of element of avorgy: "); Scanf (" %d", frum);
	int adoray [num];
	for (fort i=0; i <nom; i++)="" td="" }<=""></nom;>
	print ("Entor the value of % d element: ", i+1);
	Scanel"/d", 8 away [i]);
	5
	for lint i=0; i< num; i+t) &
	print (" The value of "d element in array is "d in"
4	1, avoigy [i]);
	3 0
	netuno;
5	
	Output:
	Enter the number of element of averay: 5
-	Enter the value of 1 element: 10
	Enter the value of 2 element: 20
*****	Enter the value of 3 elements 30
	Foldy the velip of 4 elements 40

Entor the value of 5 element; 50 The value of 1 element in array is 10 The value of 2 element in array is 30 The value of 4 element in array is 40 The value of 5 element in array is 50 The value of 5 element in array is 50		Samuel Adhob Vedhadogical Invitate Vidioha	Sch. N Year	ophank •	
	3	The value of 2 element in avoid the value of 3 element in avoid the value of 4 element in avoid the value of 5 element in avoid the value of 5 element in avoid	18 18 18	20 30 40 50	***************************************

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", j41, Bt[i]);

	Question 076- Implement algorithm to calculate
10	warting time, Twin abound time, average wit, aug THT
1	of process in FCFS CPU scheduling when asivel time of
N	each process is some i.e. o.
1	Answer -
m	Code
A	# include < stdio.h>
4	int main () §
X	int num;
A	point ("Enter the number of process: ");
	Sconf (" "/-d" 8 num);
	int TAT[num], WT[num], BT[num];
<u>\</u>	painty!" Here we consider the agrival time of each and every
4	perpress is same i.e. 0 ms \n");
一	for linti=0; i <num; i++)&<="" th=""></num;>
	paint ("Enter the CPU BURY time of process [1/d]: ", i+1);
\cap	Scanf(" "/.d", BT[i]);
9	3
10	for (int iso! i< num; i++) 8
V	point ("CPU Burgt-time of pricess [7.d] is 7.d man", it1, 81[i]
IŇ	w7[0]=0
Vj	foor (int i=2; i < num; i+t)?
(L)	$\omega T[i] = \omega T[i-1] + BT[i-1];$
10	int Sept Bot To
V	int sum WIT = 0;
All in One	float aug Wt = 0; for Cint 1=0; ic num; it) &
Stationery	for Cint 120; ic num; itt) }

Summet = Sumwit + wt[i];

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	cot[i]); Waiting time of powers [1.d]	is 7-d ms \n "; i+1,
	ayout = (float) sum w T/num;	
	point (" Average Waiting time is %.2F TAT[0] = BT[0];	ms in", aygwi);
	for lint i=0; i < num; i++) !	
-	TATEIJ = TATEI-17 + BTEIJ;	
	int sumTAT=0;	
-	float aug TAT=0;	
	foolint i=0; i < num; i++12	
-	Sumtat = Sumtat + tatli];	
-	essored to smithbounce news "Italieg	85[1/d] 18 /d ms \n"
-i	+1, TAT(i));	
-		
-	aug TAT = (float) Sum TAT / Num;	en man all and TAT II
-	pointf!" Average twoin abound time is %	·2+ //(5\h) , avg (#1),
3	return 0;	-
3		A
-		
-		·
-		
		<u> </u>

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	output c-
10	Enter the number of process: 5
V	Here we consider the avorival time of each and every
2	perocess [8 same 1.e. 0 mg
+	Enter the cfu Burst time of parocess [1]: 2
M	Enter the CPU Burgt time of process [2]: 6
1	Enter the clubwast time of process [3]: 4
7	Enter the cru Burst time of process [4]: 9
Y	Enter the cfu Burget time of process [5]; 12
	CPU Burget time of process[1] is 2 mg
	CPU Burst time of process [2] is 6 ms
	CPU Brogst time of process [3] is 4 ms
ر لا	CPU BURST time of process [4 7 is 9 ms
Q	cou Burst time of process [5] is 12 mg
7	haiting time of process[1] is o mg
_	Wating time of process[2] is 2 mg
	lability time of process [3] is 8 ms
2	Wating time of process (4) is 12 ms
1	lalating time of phocess C 5 7 is 21 ms
V	Average wating time is 8.60 ms
(Turk around time of process [17 is 2 ms
	Turn around time of process [22] is 8 ms
D	Turn around time of process [3] is 12 ms
	Turn coround time of process [4] is 21 ms
	Turn around time of process [5] is 33 ms
All in One Stationery	Average turn around time 18 15.20 mg
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	Question 08: - Implement algorithm to calculate waiting time.
10	Turn around time of each and every process when in PCFS
V	opu schedoling wen the onival time of each porocess is
N	different Also calarate average uniting time and average two
11	alrowed time.
M	Answer! -
1	Code: -
1	# include <stdio.h></stdio.h>
Y	int main ()?
Δ	int num;
	printfl" Enter the number of process: ");
	Scant (" '/-d", & num);
٧	int TATI num], BT[num]; artival (num];
Y	for (int i=0; i <num; i+t)="" th="" §<=""></num;>
7	printf!" Enter the arrival time of porocess ["x d] : "; is);
_	scanfl" 1.d', & astral[i]);
	3
2	Box (intizo; icnum; it) 1
Λ	printf!" Eater the cou burst time of process[".d]: " i+1);
	Scantl" 1.d', & B+[i]];
Λ	3 /
	for lint i=0; i cnum; i++)
D	printf (" Assival time of process [7-d] is 7-d ms in ", it, assivalli)
1	for lint 1=0; i < num; itt).
	printy (" CPU Burger time of prioness (>d] is >, d ms in ", it is BIC:);
Ain One	$\omega T[o] = 0;$
herpura	footin+ (=4; (<num; (++)<="" th=""></num;>
13998669	1ATC 17 = WTC [-17 + PTC 1-17 - anivabli 7 + anivalc: -17.

) c	Samaat Ashob Nechadogical Institute Walisha	Name OSHONK Agrawal Sch. No. Year
	in Sumul = 0; float augult = 0; facilint != 0; i < nom; i++)? Sumult = Sumult + WIT[i]; printf!" Intaiting time of process ['od]; WIT[i]); 3 augult = (float) Sumult / num; printf!" Avorage Intating time 18:10.2 Fm TAT[0] = BT[0]; for lint !=1; i < num; i++) TAT[i] = TAT[i-1] + BT[i] - onival int sum TAT = 0; float august = 0; for (int i=0; i < num; i++)? Sum TAT = SumTAT + TAT[i]; printf!" twin around time of proces [+1, TAT[i]); 3 august = (float) Sum TAT / num; printf!" Avorage twin around time i steturn 0; 3	Sinh, ang Will, [i] + orient [hi]) 86[7d] is 7d my no
ie y	sietumo;	8° 1.2 R ms In *1, aug 7,
10		



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	outpute -
10	Enter the number of process: 5
V	Enter the Arrival time of porocess [1]: 0
2	Enter the Arrival time of process [2]: 1
tr.	Enter the Arrival time of process [3]: 2
M	Enter the Arival time of process (47: 3
\wedge	Enter the Arival time of process [5]: 6
1	Enter the epu burst time of process [17: 2
1	Enter the con burst time of process [2]:6
A	Enter the cov burget time of proces [37: 4
-	Enter the epu burgt them of primess [4]: 9
	Enter the con burge one of process (57: 12
	Arrival time of process[1] is o ms
1	Assivel time of process (2) is 1 ms
`	Actual time of process [3] is 2 mg
Z	Aprilval+Ime of process [4] is 3 mg
1	Acrival time of parocess [5] is 6 ms
	epo burg time of process [1] is 2 ms
$\overline{\wedge}$	CPU BUSET time of process [2] 18 8ms
1)	cho Buret the of process [3] 18 4 mg
NU	CPO Busiet time of process CY) is 9 ms
	eft busy thread process [5] is 12 mg
	Haiting time of process [1] is o ms
1	Wating time of atomoress [2] is 1 ms
	Waiting time of process (3) 18 6 ms
I in One	Waiting time of process [4] is 9 ms
ationery	relating time of progess(5] is is mi
13998669	Average wholft no time is \$.20ms.

mai Ada	ls Teelmologieal	, Indiana	Walisha	Name OBrank Agrious Sch. No. Year
Turn at	owned time of ourself time of	Q910 Cess	[3] ix	lo Ms
T. Wa 09	and time of	AMOCORE	647 M	18 ms process [5] is 2 12,80 ms
Average	-turn and g	alound	HMC is	
				•
	: :			
			,	
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