KATHMANDU UNIVERSITY

Department of Computer Engineering.

A
Lab Report On
Computer Programming of COMP 1023
Lab Sheet No 8 4

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(Q.17: WAP to check odd numbers in the array. Ans:

```
*) Source Code:
# include < stdio. h>
void main ()
int A[15], i, n, i;
printf ("Numbers to apply");
scanf ("1.d",4n);
 printf ("Enter the numbers (n");
for (i=0; i<n; i++) scanf("1.d", 4A[i]);
printf ("Odd numbers:");
for (j=0; j<n, j+t)
if (A[j] 1. 2 != 0) printf ("Y.d\n", A[j]);
*) Output
Numbers to apply
 Enter the numbers
 98
 Entered odd numbers
```

*) Description This program reads numbers in an array and checks for the smallest number.

(Q.2): WAP to reverse elements of the array.

* Source Code

thindude (station)

void main()

int A[ID], i, j, n, k;

printf("Enter size of away(n");

scanf("Y.d\n", In);

printf("Enter size of away(n");

printf("Enter size of away(n");

for (i=0; i<n;i++) scant("Y.d", 4A[i]);

printf("Reverse of away:(n"");

k=n-1;

for (j=k;j>=0;j-) printf("1.d\n", A[i]);

(*) Output Enter size of array

Enter the numbers

3 5 7

Revenue of array

153-

* Description

This program reads the elements of the array and display it in reverse order. (4.3): WAP to display unique elements in an array.

*) Source Code:

#indude (stdio. h) void main () & int A[le], isj, ks n, m, count = 0; printf (" Enter array size In"); scanf ("-1.d; 4n); printf ("Enter the numbers (n"); for (i=0; i<=(n-1); i++) scanf("Y.d", 4A[i]); mintf ("The unique element In"); for (j=0) j<=(n-1), (j++) of count = 0; for (m=0; m<=(n-1); m++); if (A[j] == A[m]) count = count+1; if (count == 1) printf ("t.d (n", A[j]);

*) Output!

Enter array size 6 Enter the numbers The unique dement

*) Description

This program reads the numbers in the away and reads for the elements that are not repeated. Here, 2 and 3 is displayed as output.

(Q.47: WAP to find smallest element of an away.
Ans

#) Source Code

include (stdio.h)

void main!)

{ int A[10], i, n, j, small;

printf ("Number of array |n");

scanf ("/d") 4 n);

printf ("Enter the numbers \n");

for (i = 0; i <= (n-1); i++) scanf ("t-d", 4 A[i]);

small = A[0];

for (j= [; j<=(n-1); j++)

If (small > A[j]) small = A[j]; g

printf ("The smallest number = 1.d", small);

g

X) Output
Number of array
4
Enter the number
32
33
34
35

The smallest number = 32

*) Description

This program reads numbers in an away and it displays the smallest numbers

(Q.5): WAP to find LCM of two elements.
Ans:

*) Source Code

#finclude (sidio:h)

int lam (int n; int n2);

void main ()

{ int n1, n2;

lam (n1,n2);

}

int (am (int n1, int n2)

{ int i, c=1, b;

printf("Enter numbers(n"); scant("Y.d", 4n1,4r2);

for (i=1,i<=n1;i+1)

{ if (n17.?==0 41 n27.i==0) c=i; }

b= (n1*n2)/c;

printf("Lorl is Y.d", b);

2

*) Output
Enter numbers

2
6
LCH is 6.

This program calls for a function to calculate the least common multiple.

(Q.67: WAP to sort array with recussion: Ans'

* Source Code Findude (stdio.h) void sort (int A[], int); void main () fint A[10], i, n', printf("Enter sizeIn"); sanf("/d",4n); printf ("Enter the elements (n"); for (i=0; i<n; i++) scanf("Y-d", 4A[i]); sort (A,n); printf ("Sorted array"); for (i=0; i<n; i++) printf("1.dx", A(i]); 3 void sort (int A[], intn) fint indit; if (n==1) return; for (i=0; i<n; i++) 2 if (A[i]>A[i+1]) (d= ACT); ACI] = A[i+1]; A[1+1]=d') 33 N-=11 sort (AIn); 3 * Dutput Enter size 4 Enter the elements 90 10 70 20 Sorted array 10 20 70 90

* Description

This program using reausion to sort out an array in ascending order. <27: Display Muttern:
Ans:

#include (stalio.h)

void main ()

{ int i, j, k;

for (i=1; i<=5; i++)

for (k=1; k<=5-1;k++)

printf("");

printf("");

printf("");

g

g

g



20.87: WAP to check palindrome.

Ans

include <stdio-h>

include <stdio-h>

include <string-h>

void main L)

Char A[10];

int i, n, k=0;

gets (A);

n=strlen (A);

for (I=0; i< n(2; i++))

[f(A[i] == A[n-i-1])

k++;

If (k==i) printf("+Si is pallindrome", A);

else printf("+Si is not pallindrome", A);

*) Output

Level is palindrome.

*) Description

This program checks from the string palindrome string.