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MATRIC NUMBER: 18/SCI01/010

COURSE CODE: CSC206

REVISION QUESTIONS: PART 4

40)

a) #include<stdio.h>

int main (){

int n = 20;

while(n <= 1000)

{

printf("%3d ", n);

n+=3;

}

}

b) #include<stdio.h>

int main ()

{

int i, count;

for (i = 20; i <= 1000; i += 3)

{

printf("%3d ", i);

}

}

41) a) #include<stdio.h>

int main()

{

int b = 1;

do{

printf("\n%d", b);

b++;

}

while (b <= 3000);

return 0 ;

}

b) #include<stdio.h>

int main()

{

int b = 1;

do{

printf("%d ,", b);

b++;

}

while (b <= 3000);

return 0 ;

}

42) #include <stdio.h>

int main(){

int number, i = 1;

printf(" Enter the Number:");

scanf("%d", &number);

printf("Multiplication table of %d:\n ", number);

printf("--------------------------\n");

while (i <= 10)

{

printf(" %d x %d = %d \n ", number, i, number \* i);

i++;

}

return 0;

}

43) #include <stdio.h>

int main(void)

{

int a = 0;

int b = 0;

int correctInput=0;

int total\_sum = 0;

do

{

printf("Type the first number : \n");

scanf("%d", &a);

printf("Type the second number : \n");

scanf("%d", &b);

if(a<b)

correctInput=1;

else

printf("The second number should be bigger than the first one.\n");

}

while (correctInput ==0) ;

while (a <= b) {

total\_sum += a;

a++;

}

printf("Result : %d \n" , total\_sum);

return 0;

}

44) #include <stdio.h>

int main() {

int n, i, flag = 0;

printf("Enter a positive integer: ");

scanf("%d", &n);

for (i = 2; i <= n / 2; ++i) {

if (n % i == 0) {

flag = 1;

break;

}

}

if (n == 1) {

printf("1 is neither prime nor composite.");

}

else {

if (flag == 0)

printf("%d is a prime number.", n);

else

printf("%d is not a prime number.", n);

}

return 0;

}

45) #include <stdio.h>

void main(){

int j,i,n;

printf("Input upto the table number starting from 1 : ");

scanf("%d",&n);

printf("Multiplication table from 1 to %d \n",n);

for(i=1;i<=10;i++)

{

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

{

if (j<=n-1)

printf("%dx%d = %d, ",j,i,i\*j);

else

printf("%dx%d = %d",j,i,i\*j);

}

printf("\n");

}

}

46) #include<stdio.h>

int main()

{

int mark[5]= {1, 2, 3, 4, 5};

printf("%d, %d, %d, %d, %d", mark[4], mark[3], mark[2], mark[1], mark[0]);

}

47) #include<stdio.h>

int main()

{

int var;

int \*p ;

p= &var;

printf("\n The value of var is: ");

scanf("%d",&var);

printf("\n The value of var is: ");

scanf("%d",&\*p);

printf("\n The Address of var is: %p",&var);

printf("\n The Address of var is: %p",p);

printf("\n The value of pointer p is: %p",p);

printf("\n The Address of pointer p is: %p",&p);

return 0 ;

}

48)

49a) #include<stdio.h>

#include<string.h>

int main()

{

char str1[ ]=" are you a NIGERIA";

char str2[ ]=" I come from Niger NIGERIA ";

int \*result;

if (strcmp(str1,str2)==0)

{

printf("str1 and str2 are equal");

}

else {

printf("str1 and str2 are different");

}

return 0;

}

b) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]=" are you a Nigerian";

char str2[100]=" I come from Niger NIGERIA";

int \*result;

result= strncmp(str1,str2,10);

printf("result is:%d\n",result);

return 0;

}

c) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]=" are you a Nigerian";

char str2[100]=" I come from Niger NIGERIA";

char str3[100]=" We are all Nigerians!";

char \*result;

result=strupr(str2);

printf("result is:%s\n",result);

return 0;

}

50a) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]="My name is Samuel Samuel,";

char str2[100]="I want to be a good programmer";

char \*result;

result=strncat(str1,str2,30);

printf(" Result is:%s\n",result);

return 0;

}

50b) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]= "My name is Samuel Samuel,";

char str2[100]= "I want to be a good programmer";

char \* result;

result = strnset(str1,'$',10);

printf(" Result is:%s\n",result);

return 0;

}

50c) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]= "My name is Samuel Samuel,";

char str2[100]= "I want to be a good programmer";

char \* result;

result = strlwr(str1);

printf(" Result is:%s\n",result);

return 0;

}

51) #include<stdio.h>

#include<string.h>

int main ()

{

char str [10][50],temp [50];

printf("Enter 10 words: ");

for(int i = 0; i < 10; ++i)

{

fgets(str[i], sizeof(str[i]), stdin);

}

for(int i = 0; i < 10; ++i)

{

for(int j = i +1; j < 10 ; ++j)

{

if(strcmp(str[i],str[j]) > 0)

{

strcpy(temp, str[i]);

strcpy(str[i], str[j]);

strcpy(str[j], temp);

}

}

}

printf("\n In the lexicographical order: \n");

for (int i = 0; i < 10; ++i)

{

fputs(str[i] , stdout);

}

return 0 ;

}

52) #include <stdio.h>

#include <string.h>

int main()

{

char a[1000], b[1000];

printf("Enter the first string \n ");

gets(a);

printf("Enter the second string \n ");

gets(b);

strcat(a, b);

printf("String obtained on concatenation: %s \n", a);

return 0;

}