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18/SCI01/046

COMPUTER SCIENCE

CSC 206 ASSIGNMENT

C PROGRAMMING ASSIGNMENT

1. #include <stdio.h>

int main()

{

int i;

i=100;

while(i>=1)

{

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

i=i-3;

}

system("pause");

return 0;

}

1. #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)

{

//condition for non prime

if (n % i == 0)

{

flag = 1;

break;

}

}

if (n == 1)

{

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

}

{

if (flag == 0)

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

else

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

}

return 0;

}

1. #include <stdio.h>

int main()

{

int c, n, f = 1;

printf ("enter a number to calculate its factorial\n");

scanf ("%d", &n);

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

f = f \* c;

printf ("factorial of %d = %d\n", n, f);

return 0;

}

1. #include <stdio.h>

int main()

{

int i;

i=50;

while(i<=1000)

{

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

i=i+7;

}

system ("pause");

return 0;

}

1. #include <stdio.h>

int main()

{

char c;

int lowercase, uppercase;

printf("enter an alphabet: ");

scanf("%c", &c);

//evaluate to 1 if variable c is lowercase

lowercase = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');

//evaluate to 1 if variable is uppercase

uppercase = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');

//evaluate to 1 if c is either lowercase or uppercase

if (lowercase || uppercase)

printf("%c is a vowel.", c);

else

printf("%c is a consonant.", c);

return 0;

}

1. #include <stdio.h>

int main()

{

int num; /\*to store number\*/

int i; /\*loop counter\*/

printf("enter an integer number: ");

scanf("%d", &num);

/\* initializing loop counter\*/

i=1;

/\*loop from 1 to 10\*/

while (i<=10)

{

printf("%d\n", (num\*i));

i++; /\*increase loop counter\*/

}

return 0;

}

2. #include <stdio.h>

int main()

{

int a, b, c, d, e, f, g, h, result ;

printf("\ninput the first integer: ");

scanf("%d", &a);

printf("\ninput the second integer: ");

scanf("%d", &b);

printf("\ninput the third integer: ");

scanf("%d", &c);

printf("\ninput the forth integer: ");

scanf("%d", &d);

printf("\ninput the fifth integer: ") ;

scanf("%d", &e);

printf("\ninput the sixth integer: ");

scanf("%d", &f) ;

printf("\ninput the seventh integer: ");

scanf("\%d", &g);

printf("\ninput the eighth integer: ");

scanf("%d", &h);

result = a \* b \* c \* d \* e \* f \* g \* h ;

printf("product of the above eight integer = %d\n", result);

return 0;

}