

21-06-2024

C++

1. Sum of 2 integers :-

-> using namespace std;
#include <iostream>
main()

```
{  
    int a, b, c;  
    cout << "enter a, b: ";  
    cin >> a >> b;  
    c = a + b;  
    cout << "a+b = " << c;  
}
```

O/p:-

enter a, b: 5
6
a+b = 11

[OR]

-> using namespace std;
#include <iostream>
main()

```
{  
    float a, b, c;  
    cout << "enter a, b: ";  
    cin >> a >> b;  
    c = a + b;  
    cout << a << "+" << b << "=" << c;  
}
```

O/p:- enter a, b: 2.5
4

2.5 + 4 = 6.5

2. WAP to find area of a rectangle:-

→ Using namespace std;

#include <iostream>

main ()

{

float a, b, l;

cout << "enter l, b: ";

cin >> l >> b;

a = l * b;

cout << "area of rectangle = " << a;

}

O/P:-

enter l, b: 5

2

area of rectangle

= 10

3. WAP to check whether a given number is even OR odd:-

→ Using namespace std;

#include <iostream>

main ()

{ int n;

cout << "enter a number: ";

cin >> n;

if (n % 2 == 0)

cout << "even";

else

cout << "odd";

}

cout << n << " is Even";

else

cout << n << " is odd";

4. WAP to find quadratic equation:-

→ using namespace std;

#include <iostream>

main()

{

int x, b, a, c;

cout << "Enter a, b, c:";

cin >> b >> a >> c;

$x = b^2 - 4 * a * c;$

if ($x == 0$)

cout << "Real & equal";

else if ($x > 0$)

cout << "Real & not equal";

else

cout << "Imaginary";

}

[O.P.]

→ Using namespace std;

#include <iostream>

main()

{

int x, a, b, c;

cout << "enter a, b, c:";

cin >> b >> a >> c;

$x = b^2 - 4 * a * c;$

cout << x;

if ($x == 0$)

cout << "Real & equal";

else if ($x > 0$)

cout << "Real & not equal";

$$x = b^2 - 4ac$$

$$x = 0, \text{ Real \& Equal}$$

$$x > 0, \text{ Real \& Not Equal}$$

$$x < 0, \text{ Imag}$$

else

cout << "Imaginary";

}

5. WAP to print a table of a given number :-

→ Using namespace std;

#include <iostream>

main (

{

int i, n;

cout << "enter n: ";

cin >> n;

i = 1;

while (i <= 10)

{

cout << n << " * " << i << " = " << n * i << endl;

i++;

}

}

O/p:-

enter n: 5

$5 * 1 = 5$

$5 * 2 = 10$

$5 * 3 = 15$

$5 * 4 = 20$

$5 * 5 = 25$

$5 * 6 = 30$

$5 * 7 = 35$

$5 * 8 = 40$

$5 * 9 = 45$

$5 * 10 = 50$

6. WAP to find a given number is Palindrome or Not:-

-> #include <iostream>

using namespace std;

int main()

{

int n, original, r, sum = 0;

cout << "Enter n: ";

cin >> n;

original = n;

while (n > 0)

{

r = n % 10;

sum = sum * 10 + r;

n = n / 10;

}

if (sum == original)

cout << original << " is a Palindrome";

else

cout << original << " is not a Palindrome";

return 0;

}

7. WAP to find a given string is Palindrome or Not?

⇒ #include <iostream>

using namespace std;

int main()

{

char str[20], choice;

int i, length, flag;

endl → new line

do

{

flag = 0;

length = 0;

cout << "Enter a string: ";

cin >> str;

while (str[length] != '\0')

{

length++;

}

for (i = 0; i < length / 2; i++)

{

if (str[i] != str[length - i - 1])

{

flag = 1;

break;

}

}

if (flag)

cout << str << " is not a Palindrome" << endl;

else

cout << str << " is a Palindrome" << endl;


```
cout << "I'm Do you want to check another string?"  
      (y/n): ";
```

```
cin >> choice;  
}
```

```
while (choice == 'y' || choice == 'Y');
```

```
cout << "I'm THANK YOU :) for running the code I'm";  
return 0;
```

```
}
```

8. WAP to print a given array [] :-

→ using namespace std;

```
#include <iostream>
```

```
main()
```

```
{
```

```
int a[20], i, n;
```

```
cout << "Enter n: ";
```

```
cin >> n;
```

```
for (i=0; i<n; i++)
```

```
cin >> a[i];
```

```
for (i=0; i<n; i++)
```

```
cout << a[i] << endl;
```

```
}
```

O/p:- Enter n: 5

Enter array of element:

10 20 30 40 50

10

20

30

40

50