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REG NO: 2430-0153

PROGRAMMING FUNDAMENTALS

ASSIGNMENT: TERNARY OPERATORS AND CONDITIONAL
OPERATORS

TASK NO: 04

QUESTION NO: 01

SIMPLE CALCULATOR:

CODE:

```
main.cpp  [Icons] [Share] [Run]

1  #include <iostream>
2  using namespace std;
3  int main() {
4      double num_x, num_y,result;
5      char operation;
6      cout<<"Enter the first number"<<"\n";
7      cin >>num_x;
8      cout<<"Enter the second number"<<"\n";
9      cin >>num_y;
10     cout<<"Enter the operations (+,-,*,/) :"<<"\n";
11     cin >>operation;
12     if (operation =='+')
13     {
14         cout<<"Result: "<<num_x + num_y <<"\n";
15     }
16     else if (operation =='-')
17     {
18         cout<<"Result: "<<num_x - num_y <<"\n";
19     }
20     else if (operation =='*')
21     {
22         cout<<"Result: "<<num_x * num_y <<"\n";
23     }
24     else if (operation =='/')
25     {
26         cout<<"Result: "<<num_x / num_y <<"\n";
27     }
28     return 0;
29 }
```

OUTPUT:

Output

[Clear](#)

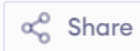
```
/tmp/D5wk7K9Qax.o
Enter the first number
6
Enter the second number
5
Enter the operations (+,-,*,/) :
*
Result: 30

=== Code Execution Successful ===
```

QUESTION: 02

CODE:

main.cpp

[Run](#)

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int number;
5      cout << "Enter a number: ";
6      cin >> number;
7      if (number > 0)
8      {
9          cout << "The number is positive.\n";
10     }
11     else
12     {
13         cout << "The number is zero.\n";
14     }
15     return 0;
16 }
```

OUTPUT:

Output

[Clear](#)

```
/tmp/YFTBmBmB5d.o  
Enter a number: 99  
The number is positive.
```

```
=== Code Execution Successful ===
```

QUESTION: 03

CHECK VOTING ELIGIBILITY

CODE:

main.cpp

[Share](#)[Run](#)

```
1  #include <iostream>  
2  using namespace std;  
3  int main() {  
4      int myAge = 19;  
5      if (myAge >= 18){  
6          cout<<"I am eligible to vote"<<"\n";  
7      }  
8      else {  
9          cout<<"I am not eligible to vote"<<"\n";  
10     }  
11     return 0;  
12 }
```

OUTPUT:

Output



[Clear](#)

```
/tmp/ox8afC0De4.o  
I am eligible to vote
```

```
=== Code Execution Successful ===
```

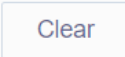
QUESTION: 04

CODE:

```
main.cpp    Share  Run
```

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int num1;
5      int num2;
6      cout<<"Enter two integers"<<"\n";
7      cin>>num1>>num2;
8
9      if (num1>num2){
10         cout<<"num1 is greater"<<"\n";
11     }
12     else {
13         cout<<"num1 is less than num2"<<"\n";
14     }
15     return 0;
16 }
```

OUTPUT:

```
Output 
```

```
/tmp/aE0iIH8hoK.o
Enter two integers
90, 50
num1 is greater

=== Code Execution Successful ===
```

QUESTION: 05

GRADE CLASSIFICATION BASED ON MARKS

CODE:

main.cpp

Share

Run

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int marks;
5      cout << "Enter your marks: ";
6      cin >> marks;
7  if (marks >= 90) {
8      cout << "Grade: A\n";
9  }
10 else if (marks >= 75)
11 {
12     cout << "Grade: B\n";
13 }
14 else if (marks >= 50)
15 {
16     cout << "Grade: C\n";
17 }
18 else {
19     cout << "Grade: F\n";
20 }
21     return 0;
22 }
```

OUTPUT:

Output

Clear

/tmp/N7c00fhWQk.o
Enter your marks: 98
Grade: A

=== Code Execution Successful ===

QUESTION: 06

PROBLEM: TRAFFIC LIGHT ACTION GUIDANCE

CODE:

main.cpp

Share

Run

```
1  #include <iostream>
2  using namespace std;
3  int main() {
4      string light;
5      cout<<"Enter a light colour: ";
6      cin>>light;
7      if (light == "red"){
8          cout<<"Stop your vehicle.";
9      }
10     else if (light == "yellow"){
11         cout<<"Get ready to move.";
12     }
13     else if (light == "green"){
14         cout<<"You can go.";
15     }
16     else{
17         cout<<"wrong input.";
18     }
19     return 0;
20 }
```

OUTPUT:

Result: 01

Output

Clear

/tmp/TBzZGZzMXy.o
Enter a light colour: red
Stop your vehicle.

=== Code Execution Successful ===

Result: 02

Output

[Clear](#)

```
/tmp/S3M6c7XDBx.o
```

```
Enter a light colour: yellow
```

```
Get ready to move.
```

```
=== Code Execution Successful ===|
```

Result: 03

Output

[Clear](#)

```
/tmp/j6segs1ram.o
```

```
Enter a light colour: green
```

```
You can go.
```

```
=== Code Execution Successful ===|
```