شایان گلمحمدی – تهران مرکز – ورودی 99 – یکشنبه ساعت 7:30 تمرین فصل دستوران if , switch , for :

تمرین ها :

-1

```
if(a>0&&b>0||c==0)cout<<"Data is incorrect"<<endl;
```

```
if (mark<0||mark>20){
   cout<<"out of range"<<endl;
} else if (mark>=0 && mark<10){
   cout<<"failed"<<endl;
} else if (mark>=10&&mark<=14){
   cout<<"passed"<<endl;
} else {
   cout<<"passed very good"<<endl;
}</pre>
```

```
if (a==10){
   cout<<"should not be ten";
} else if (a==20){
   cout<<"Twenty"<<endl;
   cout<<"forty"<<endl;
   cout<<"out of range"<<endl;
} else if (a==30){
   cout<<"Thirty"<<endl;
   cout<<"Thirty"<<endl;
   cout<<"forty"<<endl;
   cout<<"forty"<<endl;
   cout<<"forty"<<endl;
   cout<<"out of range"<<endl;
} else if (a==40){
   cout<<"forty"<<endl;
   cout<<"forty"<<endl;
   cout<<"forty"</endl;
   cout<<"forty"</endl;
   cout<<"out of range"<<endl;
} else {cout<<"out of range"<<endl;
}</pre>
```

```
#include <iostream>
using namespace std;

int main(){

int a;

cin>a;

if (a%2==0){

cout<<"The input number is even"<<endl;

else {cout<<"The input number is odd";}

return 0;

}</pre>
```

```
#include <iostream>
using namespace std;
int main(){
 int mark;
  cin>>mark;
  if (mark>=0&&mark<10){
   cout<<"F";
  } else if (mark>=10&&mark<12){</pre>
    cout<<"D"<<endl;</pre>
  } else if (mark>=12&&mark<15){</pre>
   cout<<"C"<<endl;
 } else if (mark>=15&&mark<=18){
   cout<<"B"<<endl;
 } else if (mark>=18&&mark<=20){
   cout<<"A"<<endl;
  } else {cout<<"out of range";}</pre>
  return 0;
```

```
#include <iostream>
using namespace std;

int main(){

int i,j,k,m,p;

for (i=1;i<7;i++){
    j = k = i;
    m = 20 p = 24
    m = ++j * i;
    p = k++ + m;
    cout<<"i = "<<endl;
    cout<<" p = "<<p>endl;
    return 0;
}

i =

m = 2 p = 3

i =

m = 6 p = 8

i =

m = 20 p = 8

i =

m = 12 p = 15

i =

m = 20 p = 24

i =

m = 20 p = 24

i =

m = 42 p = 48

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```

```
#include <iostream>
using namespace std;

int main(){

float milage=20;

if (milage<24.0){
    cout <<"Gas";
    cout <<"Oil";

}//;

else
cout << "Fuel efficient";

return 0;

}</pre>
```

به دلیل وجود ; در خط هشتم و قبل از else.

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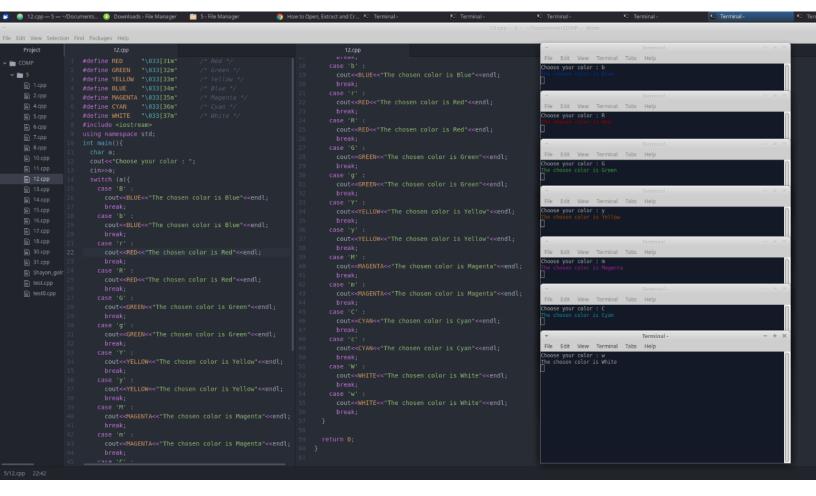
```
1 // a.
2 x<y && y<=z
3 // b.
4 x>0 && y>0 && z>00
5 // c.
6 x!=y && x!=z
7 // d.
8 x==z && x==y
```

- a. T
- b. F
- c. F
- d. T

e. F

-/ 0

```
1 #include <iostream>
2 using namespace std;
3 int main(){
4   for(int i=1; i<5; i++){
5     for(int j=1; j<=i; j++){
6       cout<<j<<"";
7   }
8     cout<<endl;
9  }
10   return 0;
11 }</pre>
Press any key to continue . . . _ _
```



```
#include <iostream>
                                               Tuesday
using namespace std;
                                               Press any key to continue . . ._
int main(){
 int day;
  cin>>day;
  switch (day) {
    case 1:
      cout << "Saturday";</pre>
      break;
    case 2:
     cout << "Sunday";
      break;
     cout << "Monday";</pre>
     break;
    case 4:
      cout << "Tuesday";</pre>
      break;
      cout << "Wednesday";</pre>
     break;
    case 6:
      cout << "Thursday";</pre>
      break;
      cout << "Friday";</pre>
      break;
```

```
#include <iostream>
using namespace std;
int main(){
   int a;
   cin>>a;
   if (a<2){
    cout<<"NO"<<endl;
} else {
   for (int i=2;i<a;i++){
        if (a%i==0){
            cout<<"NO"<<endl;
        break;
} else if (i==a-1){
            cout<<"YES"<<endl;
}
return 0;
}</pre>
```

```
#include <iostream>
using namespace std;
int main(){
   int a=1,k,f=1;
   cin>>a;
   if(a==0){
    cout<<"1";
   } else if (a>0){
    for(int i = 1; i <=a; ++i){
        f *= i;
   }
   cout <<f;
   } else {cout<<"undefined";}

return 0;
}</pre>
```

```
#include <iostream>
using namespace std;
int main(){
   int a,b;
   float c=1;
   cin>>a>>b;
   if(b==0){
      cout<<"1";
   } else if (b>0){
      for (int i=1;i<=b;i++){
            c*=a;
   }
   cout<<<c;
   } else {
      for (int i=1;i<=(-b);i++){
            c*=a;
   }
   cout<<1/c;
} crear</pre>
```

```
#include <iostream>
using namespace std;
int main(){
 int a,b,c;
 cout<<"a = ";
  cin>>a;
  cout<<"b = ";
  cin>>b;
 if (b<a){
   b=a+b ; a=b-a ; b=b-a ;
  cout<<"c = ";
  cin>>c;
 if (c<b){
  c=c+b ; b=c-b ; c=c-b ;
  if (b<a){
   b=a+b ; a=b-a ; b=b-a ;
  cout<<"***********************;
```