

NATIONAL UNIVESITY OF SCIENCES AND TECHNOLOGY

COMPUTER SYSTEM AND PROGRAMMING

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♦ SECTION: B

TASK: 1

```
#include <iostream>
using namespace std;
int main (){
char choice;
double population;
cout<<"please select a province"<<endl;</pre>
cout<<"A : Punjab"<<endl;</pre>
cout<<"B : Sindh"<<endl;</pre>
cout<<"C : KPK"<<endl;</pre>
cout<<"D : Balochistan"<<endl;
cout<<"please enter your choice: ";
cin>>choice;
switch (choice){
case 'A':
population=110; break;
case 'B':
population=54;break;
case'C':
population=35;break;
case 'D':
population=12;break;
default:
cout<<"invalid choice"<<endl;
return 0;}
cout<<"the population of selected province is: "<<population<<" million"<<endl;</pre>
return 0;
```

```
please select a province
A: Punjab
B: Sindh
C: KPK
D: Balochistan
please enter your choice: D
the population of selected province is: 12 million

Process exited after 9.249 seconds with return value 0
Press any key to continue . . . _
```

TASK: 2

```
#include <iostream>
using namespace std;
int main(){
char alphabet;
cout<<"Enter an alphabet: ";</pre>
cin>>alphabet;
switch (alphabet){
case 'a':
case'A':
case'e':
case'E':
case'i':
case'l':
case'o':
case'O':
case 'u':
```

```
case 'U':
cout<<"so "<<alphabet<<" is vowel"<<endl;break;
default :
cout<<"so "<<alphabet<< " is consonant"<<endl;break;
}
return 0;
}</pre>
```

```
Enter an alphabet: U
so U is vowel

Process exited after 11.65 seconds with return value 0
Press any key to continue . . . _
```

TASK: 3

```
#include <iostream>
using namespace std;
int main()
{ int number;
cout << "Enter a number: ";
cin >> number;
switch (number > 0) {
   case 1:
   cout << "The number is positive." << endl; break;
   case 0:
   switch (number < 0) {
    case 1:
   cout << "The number is negative." << endl; break;</pre>
```

```
case 0:
cout << "The number is zero." << endl;
break;
}
break; }
return 0; }</pre>
```

```
please enter a number: 8
8 is a positive number.
-----
Process exited after 4.592 seconds with return value 0
Press any key to continue . . . _
```

TASK: 4

```
#include <iostream>
using namespace std;
int main (){
  int age;
  cout<<"please enter your age: ";
  cin>>age;
  if(age<18){
  if (age<=13){
    cout<<"you are a child."<<endl;
}
else{
  cout<<"you are a teenager."<<endl;
}</pre>
```

```
}
else{
cout<<"you are an adult."<<endl;
}
return 0;
}</pre>
```

```
please enter your age: 16
you are a teenager.

-----
Process exited after 5.769 seconds with return value 0
Press any key to continue . . .
```

TASK: 5

```
#include <iostream>
using namespace std;
int main(){
  int a,b,c;
  cout<<"Enter three numbers: ";
  cin>>a>>b>>c;

if(a > b){
  if(a>c){
  cout<<a<<" is the greatest number"<<endl;
  }
  else{
  cout<<c<<" is the greatest number"<<endl;
}</pre>
```

```
else{
if(b>c){
cout<<b<<" is the greatest number."<<endl;
}
else{
cout<<c<<" is the greatest number."<<endl;
}

return 0;
}
</pre>
```

```
Enter three numbers: 5
3
9
9 is the greatest number
...Program finished with exit code 0
Press ENTER to exit console.
```

TASK: 6

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

int main() {
   char letter;
   cout << "Enter a letter: ";</pre>
```

```
cin >> letter;

if (isalpha(letter)) {
    if (letter == 'a' || letter == 'e' || letter == 'i' || letter == 'o' || letter == 'u' || letter == 'E' || letter == 'U') {
        cout << letter << " is a vowel." << endl;
    } else {
        cout << letter << " is a consonant." << endl;
    }
} else {
    cout << letter << " is not an alphabet." << endl;
}
return 0;
}</pre>
```

```
Enter a letter: q
q is a consonant.

...Program finished with exit code 0
Press ENTER to exit console.
```