Fundamentals of Programming

Home Task: 3

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Code:

```
#include <iostream>
using namespace std;
int main() {
char prov;
cout<<"Enter P for Punjab, S for Sindh, K for KPK, B for Balochistan "<<endl;
cout << "Enter the province:";</pre>
cin >> prov;
switch (prov) {
case 'P':
cout << "Population of Punjab: 127,500,450 "<<endl;
break:
case 'S':
cout << "Population of Sindh: 56,456,312 "<<endl;
break;
case 'K':
cout << "Population of KPK: 39,865,368 "<<endl;
break:
case 'B':
cout << "Population of Balochistan: 13,942,425 "<<endl;
break;
default:
cout << "Invalid" <<endl;</pre>
break;
return 0;
```

```
Enter P for Punjab, S for Sindh, K for KPK, B for Balochistan
Enter the province:B
Population of Balochistan: 13,942,425
...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter P for Punjab, S for Sindh, K for KPK, B for Balochistan
Enter the province:S
Population of Sindh: 56,456,312

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

Code:

```
#include <iostream>
using namespace std;
int main() {
char alphabet;
cout << "Enter any alphabet: ";</pre>
cin >> alphabet;
switch (alphabet) {
case 'a':
case 'e':
case 'i':
case 'o':
case 'u':
cout << alphabet << " is a vowel." << endl;
break;
default:
cout << alphabet << " is a consonant." << endl;</pre>
return 0;
```

```
Enter any alphabet: a
a is a vowel.

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

```
Enter any alphabet: h
h is a consonant.

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

Code:

```
#include <iostream>
using namespace std;
int main() {
int num;
cout << "Enter any integer.";
cin >> num:
switch (num) {
case (0):
cout << "The number is 0.";
break:
default:
if (num>0){
cout<<"This number is positive.";}</pre>
else
{ cout<<"This number is negative.";}
return 0;
```

```
Enter any integer.456
This number is positive.
...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter any integer.0
The number is 0.
...Program finished with exit code 0
Press ENTER to exit console.
```

Code:

```
#include <iostream>
using namespace std;
int main() {
int age;
cout << "Enter your age.";</pre>
cin >> age;
if (age < 18) {
if (age < 13) {
cout << "You are a child.";
} else if ((age >= 13) && (age < 18)) {
cout << "You are a teenager.";</pre>
} else if (age >= 18) {
cout << "You are an adult";</pre>
} else {
cout << "Invalid";</pre>
return 0;
```

```
Enter your age.23
You are an adult
...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter your age.16
You are a teenager.
...Program finished with exit code 0
Press ENTER to exit console.
```

Code:

```
#include <iostream>
using namespace std;
int main() {
 int number1, number2, number3, greatest;
 cout << "Enter the 1st number" << endl;
 cin>>number1;
 cout<<"Enter the second number"<<endl;</pre>
 cin>>number2:
 cout <<"Enter the Third number"<<endl;</pre>
 cin>>number3;
 if(number1>number2)
   if(number1>number3)
   greatest = number1;
   else
   greatest = number3;
 else
    if(number2>number3)
    greatest=number2;
    else
    greatest=number3;
  cout<<"Greatest Number is: "<<greatest<<endl;</pre>
  return 0; }
Output:
```

```
Enter the 1st number

34
Enter the second number

56
Enter the Third number

97
Greatest Number is: 97

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

Code:

```
#include <iostream>
using namespace std;
int main() {
  char alphabet;

cout << "Enter any alphabet: ";
  cin >> alphabet;

if (alphabet >= 'a' && alphabet <= 'z') {

  if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'u') {
    cout << "You've entered a vowel." << endl;
  } else {
    cout << "You've entered a consonant." << endl;
  }
} else {

  cout << "Please enter an alphabet." << endl;
}
return 0;
}</pre>
```

Output:

Enter any alphabet: i
You've entered a vowel.

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

Enter any alphabet: h
You've entered a consonant.

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