Bahria University, Karachi Campus



COURSE: CSC -113 Computing Programming lab TERM: SPRING 2020, CLASS: BCE- 2A

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Submitted By:

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1. Write a program in which you have to calculate the salary of employees by using functions (departments are, IT, Marketing, Accounting, Human Resource)

Basic salary = 50k and bonus = 35%, 30%, 15% and 10% of basic

```
space std:
int IT();
int Marketing();
int Accounting();
int HumanResource();
int HumanResource();
int main()
{
    cout<<"BASIC SALARY = 50000"<<endl;
    cout<<"IT SALARY WITH 35% BONUS = "<<IT()<<endl;
    cout<<"MARKETING SALARY WITH 30% BONUS = "<<Marketing()<<endl;
    cout<<"ACCOUNTING SALARY WITH 15% BONUS = "<<Accounting()<<endl;
    cout<<"HUMAN RESOURCE WITH 10% BONUS = "<<HumanResource()<<endl;</pre>
}
int IT()
         int salary=50000,total;
        total=salary+(salary*.35);
return total;
}
int Marketing()
        int salary=50000,total;
total=salary+(salary*.30);
return total;
}
int Accounting()
         int salary=50000,total;
        total=salary+(salary*.15);
return total;
}
int HumanResource()
        int salary=50000,total;
total=salary*(salary*.10);
          return total;
```

```
BASIC SALARY = 50000
IT SALARY WITH 35% BONUS = 67500
MARKETING SALARY WITH 30% BONUS = 55000
ACCOUNTING SALARY WITH 15% BONUS = 57500
HUMAN RESOURCE WITH 10% BONUS = 55000

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

2. Write a C++ Program that contains four user defined function(s) add(), subtract(), multiply(), divide().

PROGRAM:

3. Write a method named square_cube() that computes the square and cube of the value and display the result.

```
C++
#Include <iostream>

| Save | Sav
```

4. Write a C++ program that contain a user defined function primeno().

PROGRAM:

```
using namespace std;
bool isPrime(int num);
  12 int main()
          isPrime(41);
          isPrime(55);
  17 }
18 bool isPrime(int num)
           bool flag=false;
            for(int i = 2; i <= num / 2; i++)
               if(num % i == 0)
                 flag = true;
         }
}
if(flag==0)
cout<<num<<" Is a Prime Number"<<endl;
           cout<<num<<" Is not a Prime Number"<<endl;</pre>
           return flag;
マ パ 引
41 Is a Prime Number
55 Is not a Prime Number
 ..Program finished with exit code 0
Press ENTER to exit console.
```

5. Write a C++ Program that contains one user defined function cal_grades().

In user defined function:

- o Perform conditioning with else if statement return char value.
- o Function must return value.

```
input

Enter Your Marks = 90

YOUR GRADE IS = A

...Program finished with exit code 0

Press ENTER to exit console.
```

6. Write a program in C to swap two numbers using function.

Test Data:

Input 1st number: 13

Input 2nd number: 15

Expected Output:

Before swapping: n1 = 13, n2 = 15

After swapping: n1 = 15, n2 = 13

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

void swap(int ,int );
int main()

int a,b;
    cout<<"Enter Two Number \n";
    cin>a>>b;

cout<<"Before Swapping = "<<a<" "<<b;
    cout<'"nAfter Swapping = ";
    swap(a,b);
    return 0;
}

void swap(int x,int y)

int z;
    z=x;
    x=y;
    y=z;
    cout<<x" "<<y;
}

out<<x" "<<y;
}
</pre>
```

```
input

Enter Two Number

S

Refore Swapping = 5 7

After Swapping = 7 5

...Program finished with exit code 0

Press ENTER to exit console.
```