Fundamentals of Programming

HOME TASK MANUAL 4

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Task 1

```
#include<iostream>
using namespace std;
int main()
{
   int x,y;
   for(x=0;x<150;x++)
{
        y=x+1;
        if(y%10!=0)
        {
            cout<<y<<",";
        }
        else
        {
            //do nothing
        }
}
return 0;
}</pre>
```

```
#include<iostream>
using namespace std;
int main()
       int num, sum(0), res;
       cout<<"Enter the value of number:";
       cin>>num;
       while(res!=0){
       //if we take a number 456 ,it is divided by 10 and remainder 6 is stored in
result
       res=num%10;
       //then the result is added in sum which is 0 and sum of 0 and 6 is stored in
sum
       sum=sum+res;
       //then num (456) is divided by 10 and result(45) integer number is stored in
num
       num=num/10;
       //this process continues on until remainder is not zero
       //in first run sum is 6(0+6)
       //then sum is 11(6+5) and then 15(11+4)
       cout<<"The value of sum of digit of a number is:"<<sum;
       return 0;
}
```

C:\Users\arbab\Documents\TASK\task 422.exe

```
#include<iostream>
using namespace std;
int main()
{
       int num,x;
       //declare two variables num and x
       bool prime=true;
       // we assume that the number entered is a prime number and then check it
       cout<<"Enter the value of num";
       cin>>num;
       // entering the value of number which we want to check
       for(x=2;x<num;x++)
        if(num%x==0)
        //number is divided by x (2<=x<num) if remainder is zero it means number is
divisible by any other number (other than 1 and itself)
        //this mean number is not prime
        prime = false;
        //if number is not prime than bool change it value from true to false
        break;
        //if remainder comes 0 then break ends this loop
        //if it does not ends the loop it will give us wrong answer
       if(prime)
              //if prime=true then this command is executed
        cout<<"The number is a prime number";
        else
       cout<<"The number is not a prime number";</pre>
        }
       return 0;
}
```

C:\Users\arbab\Documents\TASK\task 4333.exe

```
Enter the value of num :11
The number is a prime number

Process exited after 3.153 seconds with return value 0
Press any key to continue . . . _
```